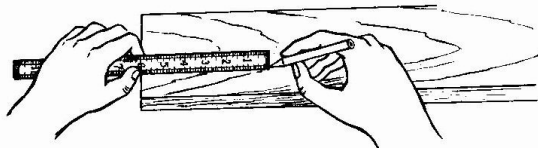


HOW TO USE STANLEY MEASURING RULES

STANLEY



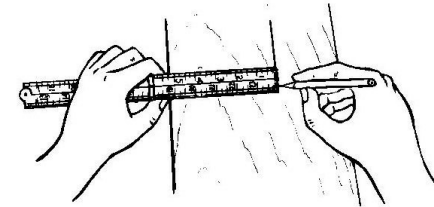
TO MEASURE ACCURATELY HOLD THE RULE ON ITS EDGE SO THE MEASURING MARKS ARE IN CONTACT WITH THE WORK. MARK WITH A SHARP KNIFE OR PENCIL.

BENCH RULE

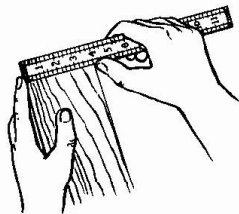


THE ILLUSTRATION IS OF
STANLEY RULE NO. 34 1/4 V-12"

STANLEY

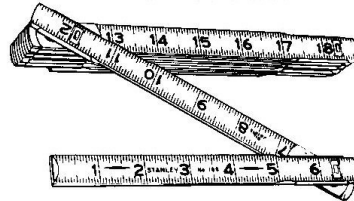


THE RULE AND THE PENCIL MAY BE USED AS A GAUGE TO MARK LINES PARALLEL TO THE EDGE OF THE TIMBER.



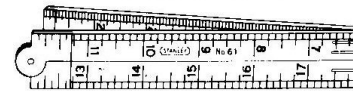
TO MEASURE A PIECE OF TIMBER ACCURATELY, BE SURE THE END OF THE RULE IS EVEN WITH THE EDGE AND WITH THE THUMB NAIL FIX THE EXACT MEASURING MARK ON THE OTHER SIDE.

ZIG ZAG RULE

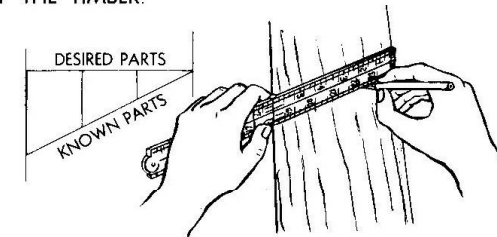


THE ILLUSTRATION IS OF
STANLEY RULE NO. 106-6"

FOLDING RULE

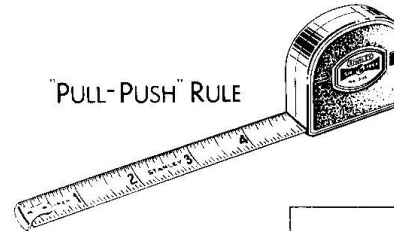


THE ILLUSTRATION IS OF
STANLEY RULE NO. 61-2"

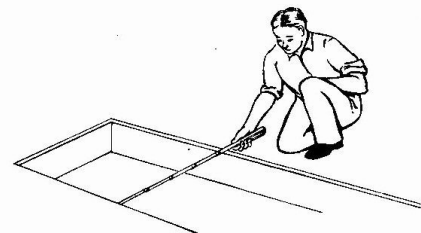


THE RULE MAY BE USED TO DIVIDE A PIECE OF TIMBER INTO EQUAL OR PROPORTIONAL PARTS.

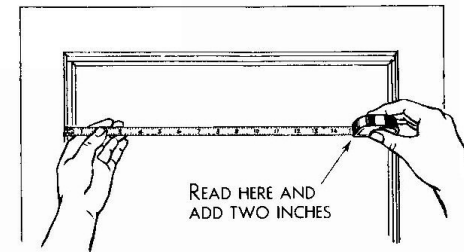
"PULL-PUSH" RULE



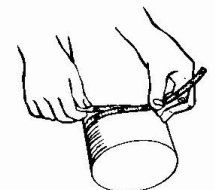
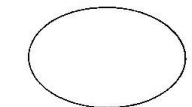
THE ILLUSTRATION IS OF
STANLEY RULE NO. 346-6"



THE ZIG ZAG RULE IS USEFUL FOR TAKING OR LAYING OFF LONG OR SHORT MEASUREMENTS. IT IS STIFF ENOUGH TO MEASURE ACROSS HORIZONTAL OPENINGS.



THE FLEXIBLE "PULL-PUSH" RULE MEASURES REGULAR AND IRREGULAR SHAPES AND PERMITS INSIDE MEASUREMENTS TO BE READ BY ADDING TWO INCHES TO THE READING ON THE BLADE.

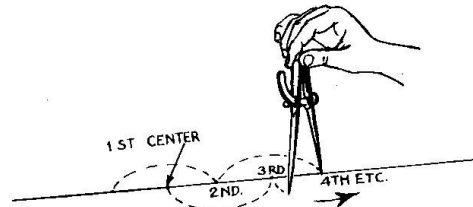


STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S2

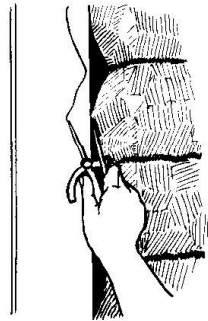
STANLEY WORKS (G.B.) LTD.
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HOW TO USE MEASURING AND MARKING TOOLS

STANLEY

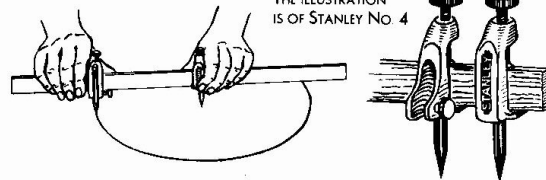


DIVIDERS ARE USED TO STEP OFF A MEASUREMENT SEVERAL TIMES ACCURATELY.



DIVIDERS MAY BE USED TO SCRIBE A LINE TO MATCH AN IRREGULAR SURFACE, MASONRY OR WOODWORK.

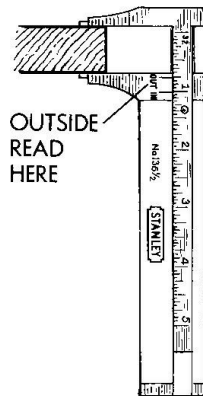
TRAMMEL POINTS



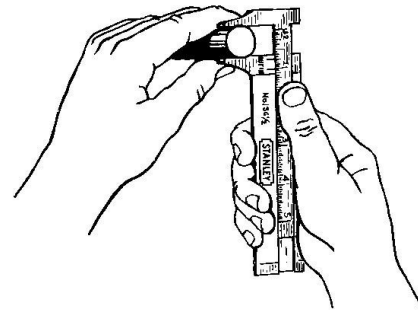
TRAMMEL POINTS ON A ROD ARE USED TO MAKE CIRCLES TOO LARGE FOR DIVIDERS.

STANLEY WORKS (G.B.) LTD.
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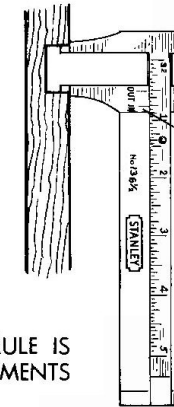
INSIDE AND OUTSIDE CALIPER RULE



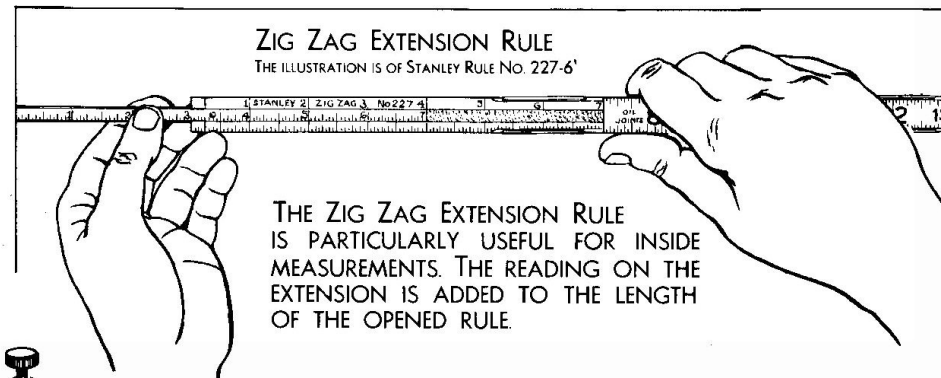
OUTSIDE
READ
HERE



THE INSIDE AND OUTSIDE CALIPER RULE IS USEFUL FOR MANY SMALL MEASUREMENTS



INSIDE
READ
HERE

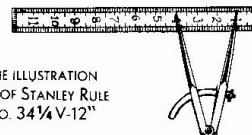


ZIG ZAG EXTENSION RULE

THE ILLUSTRATION IS OF STANLEY RULE No. 227-6'

THE ZIG ZAG EXTENSION RULE IS PARTICULARLY USEFUL FOR INSIDE MEASUREMENTS. THE READING ON THE EXTENSION IS ADDED TO THE LENGTH OF THE OPENED RULE.

THE ILLUSTRATION
IS OF STANLEY RULE
No. 34 1/4 V-12"



TO SET DIVIDERS HOLD BOTH POINTS ON THE MEASURING LINES OF THE RULE

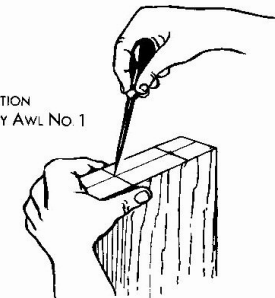
TO SET CALIPERS HOLD ONE LEG ON END OF RULE AND OTHER ON MEASURING LINE

STANLEY



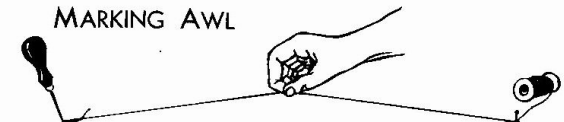
DIVIDERS ARE USED FOR SCRIBING CIRCLES OR AN ARC. ALSO FOR COMBINATIONS OF CIRCLES AND ARCS FOR MAKING LAYOUTS FOR CURVED DESIGNS, ETC.

THE ILLUSTRATION
IS OF STANLEY AWL No. 1



THE CENTRE FOR BORING HOLES SHOULD BE CAREFULLY SUNK WITH THE POINT OF A MARKING AWL FOR ACCURACY IN LOCATING THE BIT.

MARKING AWL



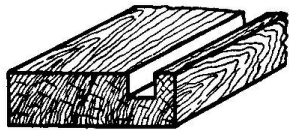
THE CHALK LINE IS USED FOR LONG STRAIGHT LINES. BE SURE TO SNAP THE TAUT LINE SQUARE TO THE SURFACE.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S3

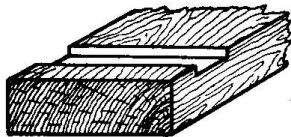
COMMON CUTS IN WOOD

STANLEY

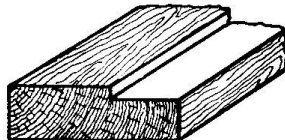
STANLEY



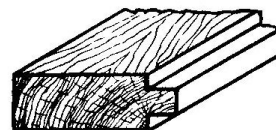
PLOUGH
(AUSTRALIAN TERM:
GROOVE)



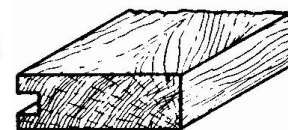
HOUSING OR NOTCH
(AUSTRALIAN TERM:
HOUSING OR TRENCH)



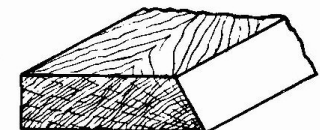
RABBET
(AUSTRALIAN TERM:
REBATE)



TONGUE



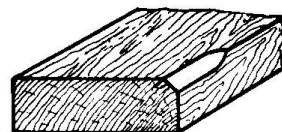
GROOVE



BEVEL



CHAMFER



STOP CHAMFER



NOSING



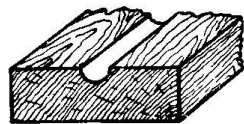
CENTRE BEAD



EDGE BEAD



ROUND



FLUTE



HOLLOW



1/4 ROUND OR
QUADRANT



COVE OR 1/4 HOLLOW
OR SCOTIA



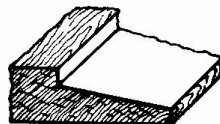
REED



REVERSE OGEE



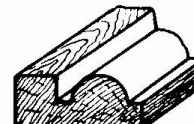
ROMAN OGEE



SHIP LAP



COMMON OGEE



ASTRAGAL



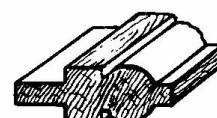
GRECIAN OGEE WITH BEAD



BEVEL SASH



OGEE SASH



OVALO SASH

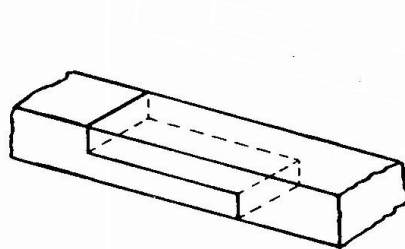
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STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S4

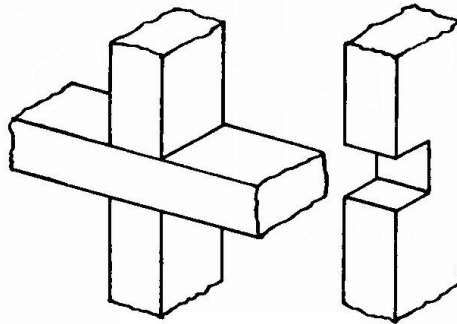
COMMON WOOD JOINTS

STANLEY

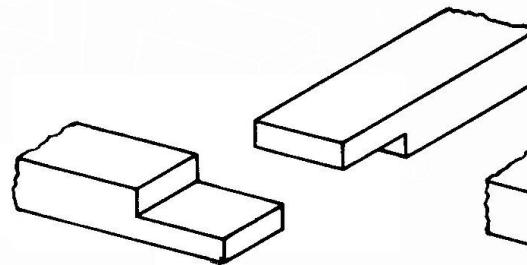
STANLEY



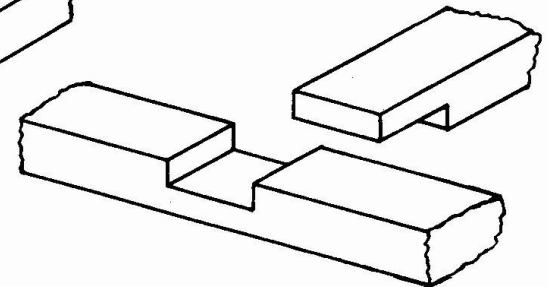
BUTT HALVING



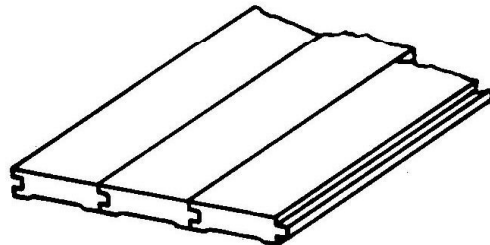
CROSS HALVING



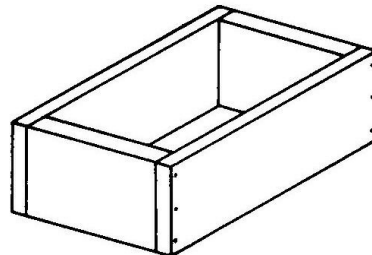
CORNER HALVING



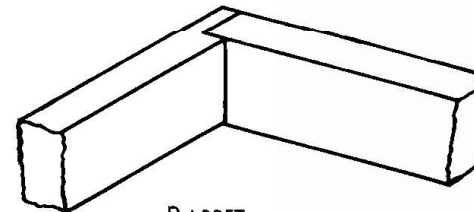
TEE HALVING



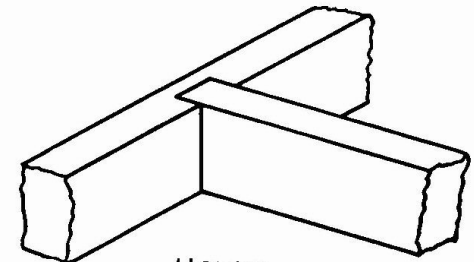
TONGUE & GROOVE



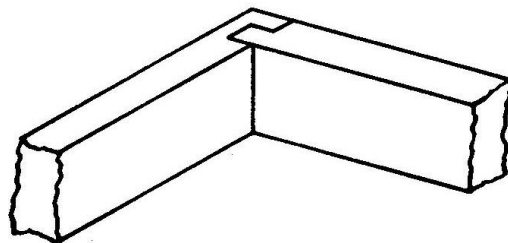
BUTT



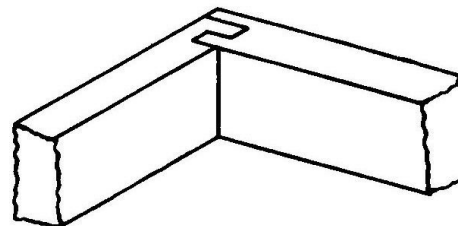
RABBET
(AUSTRALIAN TERM: REBATE)



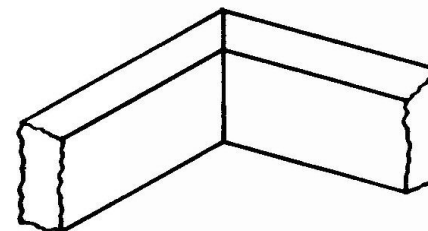
HOUSED



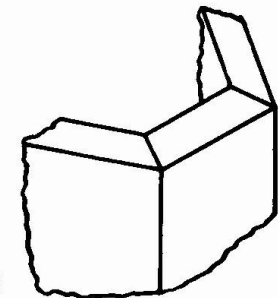
TONGUED & HOUSED
(AUSTRALIAN TERM: BAREFACED
TONGUE AND TRENCH)



TONGUED & LIPPED
(AUSTRALIAN TERM: LAPPED TONGUE
AND TRENCH)



PLAIN MITRE



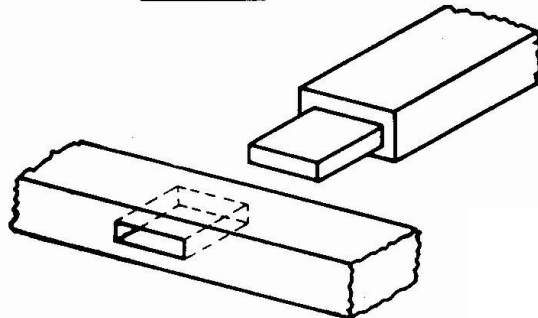
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S5

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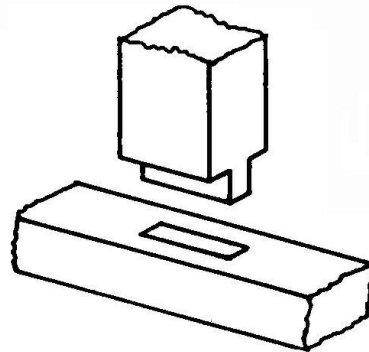
COMMON WOOD JOINTS

STANLEY

STANLEY

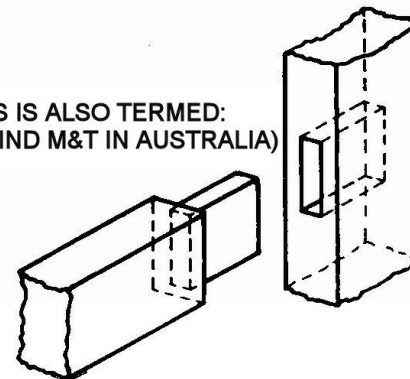


COMMON MORTISE & TENON
(AUSTRALIAN TERM:
THROUGH MORTICE AND TENON)

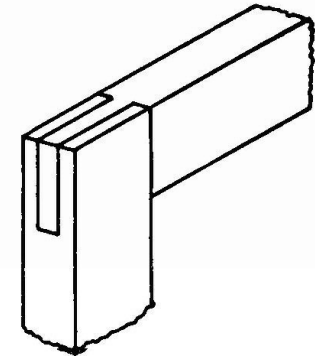


STUB MORTISE & TENON
(AUSTRALIAN TERM: BLIND M&T)

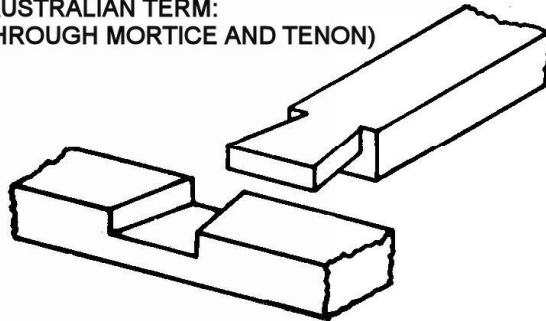
(THIS IS ALSO TERMED:
A BLIND M&T IN AUSTRALIA)



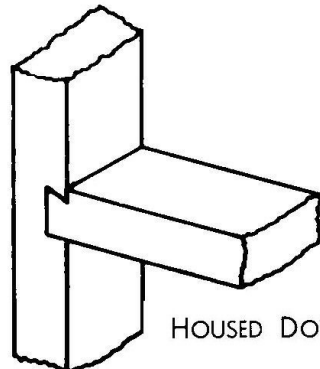
STOPPED MORTISE & TENON



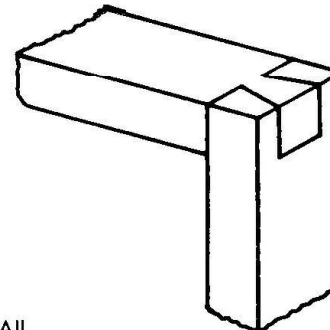
SLOT MORTISE & TENON
(edit: AUSTRALIAN TERM: BRIDLE)



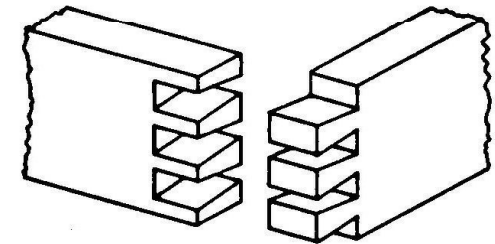
DOVETAILED HALVING



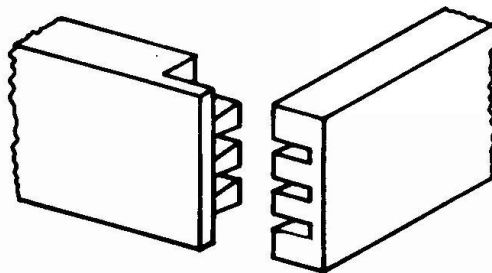
HOUSED DOVETAIL
(AUSTRALIAN TERM:
DOVETAILED HOUSING)



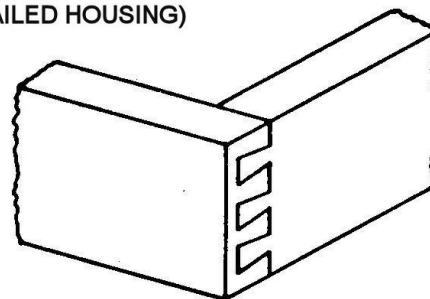
SINGLE DOVETAIL



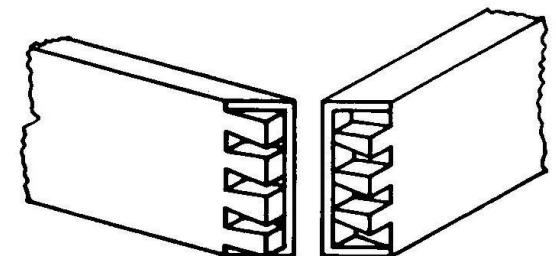
COMMON DOVETAIL
(AUSTRALIAN TERM: THROUGH DOVETAIL)



DOUBLE LAP DOVETAIL



LAP DOVETAIL



MITRE OR SECRET DOVETAIL

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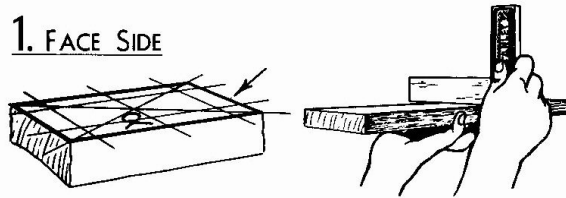
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S6

HOW TO USE THE STANLEY TRY SQUARE AND HOW TO SQUARE UP WOOD

STANLEY

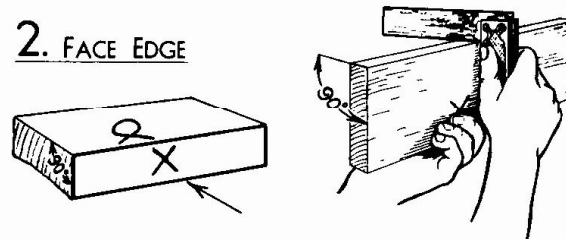
STANLEY

1. FACE SIDE



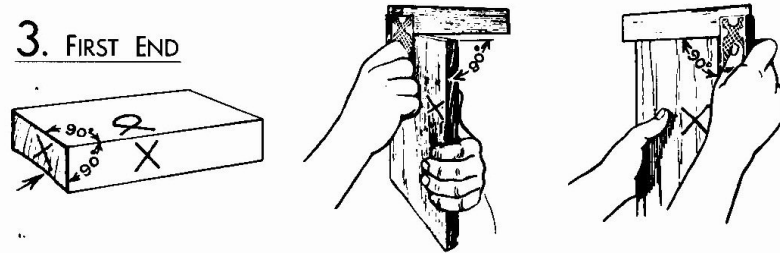
PLANE ONE BROAD SURFACE SMOOTH AND FLAT. TEST IT CROSSWISE, LENGTHWISE, AND FROM CORNER TO CORNER. MARK THE FACE SIDE X.

2. FACE EDGE



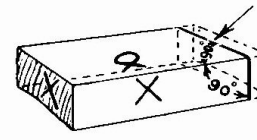
PLANE ONE EDGE SMOOTH, STRAIGHT AND SQUARE TO THE FACE SIDE. TEST IT FROM THE FACE SIDE. MARK THE FACE EDGE X.

3. FIRST END



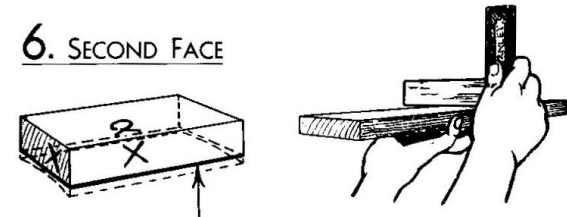
PLANE ONE END SMOOTH AND SQUARE. TEST IT FROM THE FACE SIDE AND FACE EDGE. MARK THE FIRST END X.

4. SECOND END



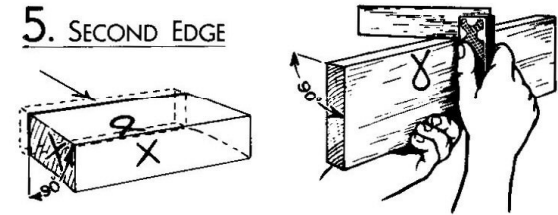
MEASURE LENGTH AND SCRIBE AROUND THE WOOD, A LINE SQUARE TO THE FACE EDGE AND FACE SIDE. SAW OFF EXCESS WOOD NEAR THE LINE AND PLANE SMOOTH TO THE SCRIBED LINE. TEST THE SECOND END FROM BOTH THE FACE SIDE AND FACE EDGE.

6. SECOND FACE

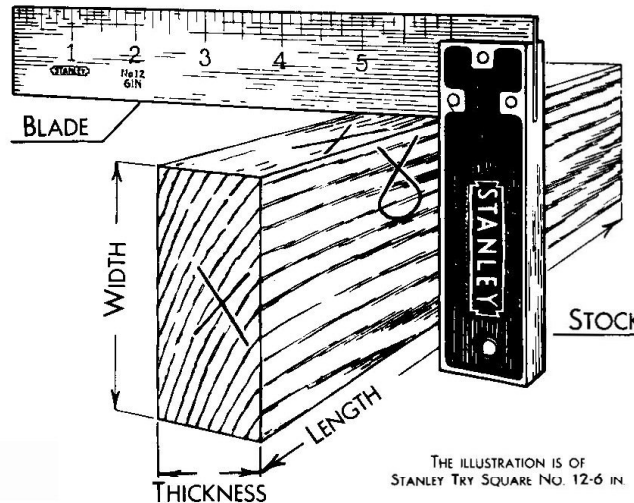


FROM THE FACE SIDE GAUGE A LINE FOR THICKNESS AROUND THE WOOD. PLANE SMOOTH, STRAIGHT, SQUARE AND TO THE GAUGE LINE. TEST THE SECOND FACE AS THE FACE SIDE IS TESTED.

5. SECOND EDGE



FROM THE FACE EDGE GAUGE A LINE FOR WIDTH AROUND THE WOOD. PLANE THE WOOD TO THE GAUGE LINE. TEST THE SECOND EDGE FROM THE FACE SIDE.



THE ILLUSTRATION IS OF
STANLEY TRY SQUARE NO. 12-6 IN.

HOLD THE HANDLE OF THE TRY SQUARE TIGHT AGAINST THE WOOD WHEN TESTING ENDS, EDGES OR SCRIBING LINES. FOR THE USE OF THE MARKING GAUGE SEE STANLEY CHART NO. S8. FOR THE USE OF THE PLANE SEE STANLEY CHART NO. S14.

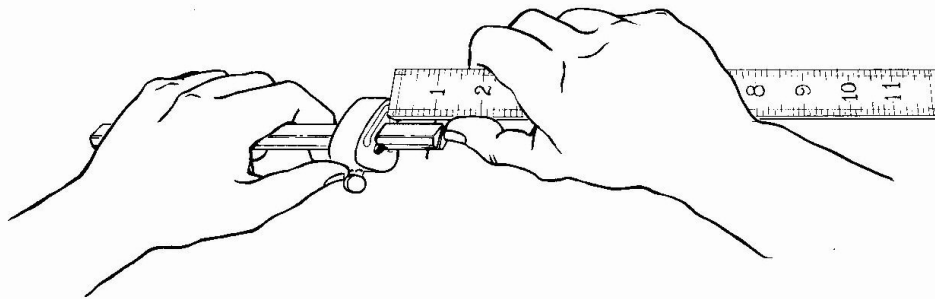
STANLEY WORKS (G.B.) LTD.
SHEFFIELD, ENGLAND.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S7

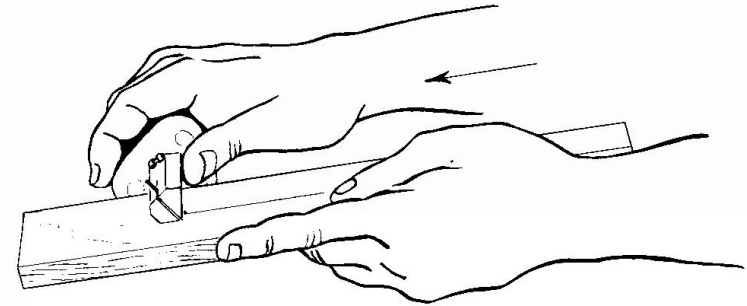
HOW TO USE THE STANLEY MARKING GAUGE

STANLEY

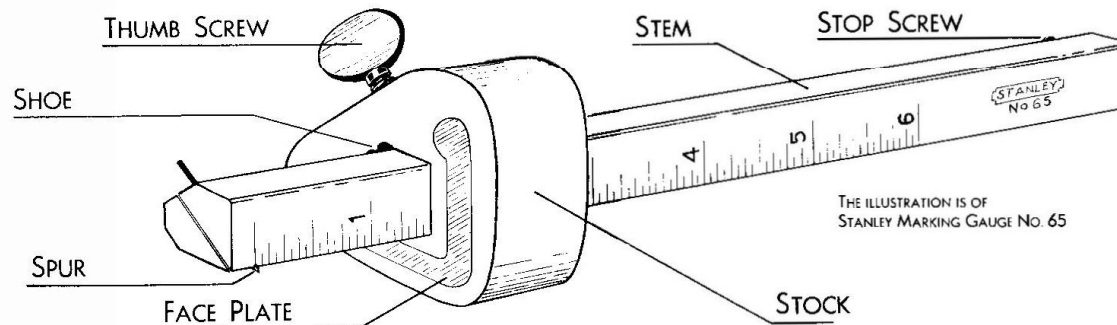
STANLEY



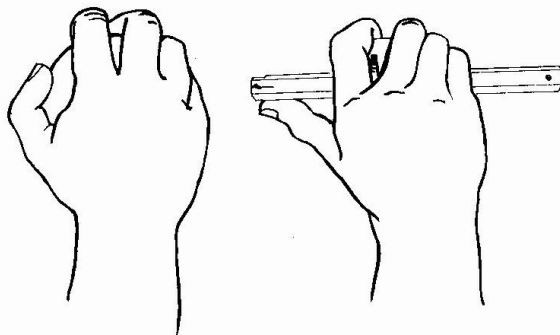
SET THE MARKING GAUGE BY MEASUREMENT FROM THE STOCK TO THE SPUR. CHECK THE MEASUREMENT AFTER TIGHTENING THE THUMB SCREW.



LAY THE STEM FLAT ON THE WOOD SO THE SPUR DRAGS NATURALLY AS THE MARKING GAUGE IS PUSHED AWAY. NO ROLL MOTION IS NECESSARY. THE SPUR AND LINE ARE VISIBLE AT ALL TIMES.



THE ILLUSTRATION IS OF
STANLEY MARKING GAUGE No. 65

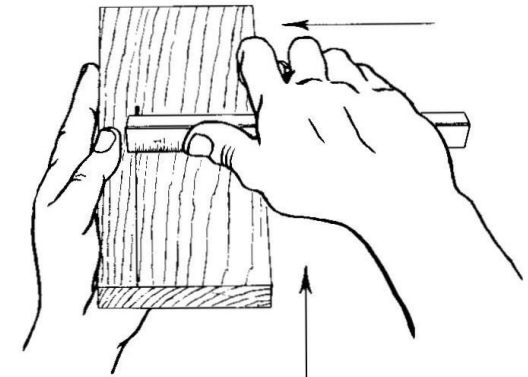


HOLD THE GAUGE AS YOU WOULD A BALL. ADVANCE THE THUMB TOWARD THE SPUR SO AS TO DISTRIBUTE THE PRESSURE EVENLY BETWEEN THE SPUR AND THE STOCK.

THE SPUR SHOULD PROJECT ABOUT 1/16 IN. THE CURVED SIDE OF THE SPUR HELPS TO KEEP IT FROM FOLLOWING THE GRAIN OF THE WOOD.

TO MAKE A GAUGE LINE PUSH THE GAUGE FORWARD WITH THE STOCK HELD TIGHT AGAINST THE FACE EDGE OF THE WOOD. THE PRESSURE SHOULD BE APPLIED IN THE DIRECTION OF THE ARROWS.

THE SPUR IS GROUND WITH A CONICAL POINT, THEN ONE HALF IS GROUND FLAT. THIS GIVES A KNIFE TYPE LINE.



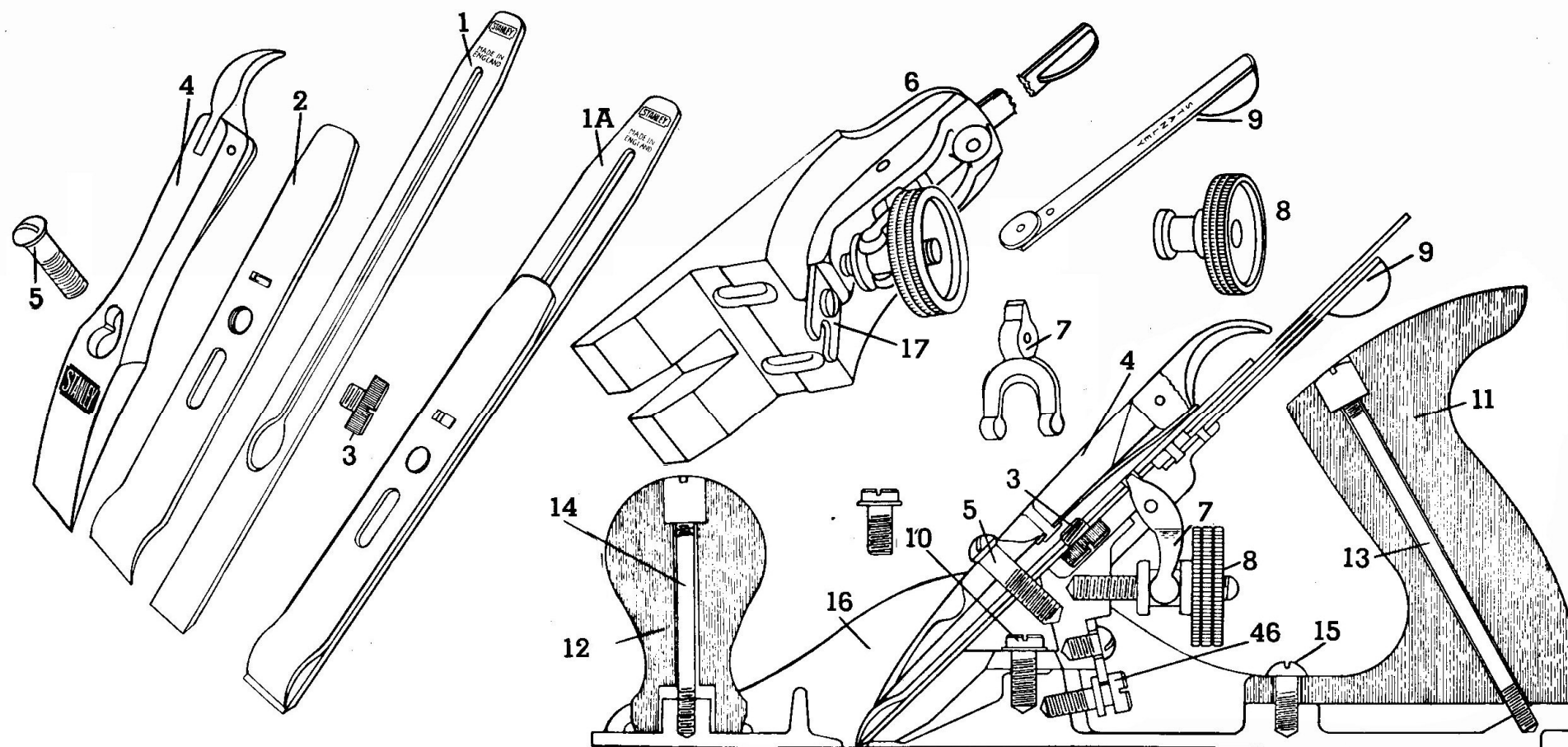
STANLEY TOOLS
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WALL CHART NO. S8

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STANLEY PLANES

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- 1A DOUBLE PLANE IRON
- 1 SINGLE " "
- 2 PLANE IRON CAP
- 3 CAP SCREW

- 4 LEVER CAP
- 5 " " SCREW
- 6 FROG COMPLETE
- 7 "Y" ADJUSTING LEVER
- 8 ADJUSTING NUT

- 9 LATERAL ADJUSTING LEVER
- 10 FROG SCREW
- 11 HANDLE
- 12 KNOB
- 13 HANDLE BOLT

- 14 KNOB BOLT & NUT
- 15 HANDLE SCREW
- 16 BOTTOM
- 17 FROG CLIP & SCREW
- 46 FROG ADJUSTING SCREW

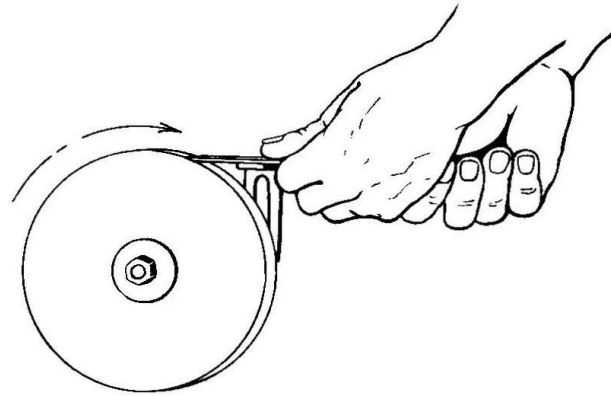
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STANLEY TOOLS
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WALL CHART NO. S9

HOW TO GRIND STANLEY PLANE IRONS

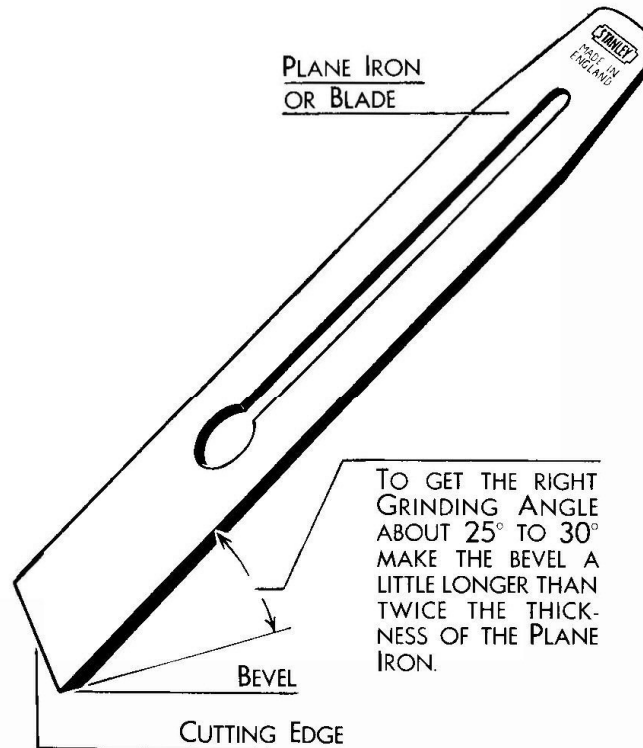
(THIS ALSO APPLIES TO CHISELS)

STANLEY



GRINDING STRAIGHTENS THE EDGE AND RESTORES THE BEVEL PREPARATORY TO SHARPENING BY WHETTING ON THE OIL STONE. THE GRIND STONE SHOULD TURN TOWARD THE PLANE IRON. USE THE GUIDE, AS IT ASSURES A FLAT EVEN BEVEL.

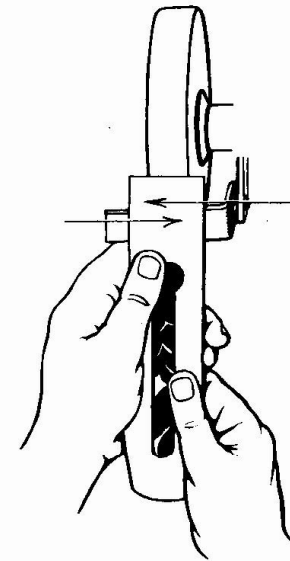
PLANE IRON
OR BLADE



BEVEL

CUTTING EDGE

STANLEY

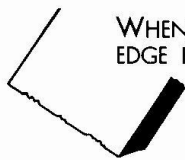


MOVE THE PLANE IRON FROM SIDE TO SIDE TO GRIND ALL PARTS OF THE BEVEL AND TO KEEP THE WHEEL TRUE.

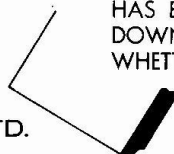
THE EDGE SHOULD BE STRAIGHT AND ALMOST AT RIGHT ANGLES TO THE SIDES OF THE PLANE IRON.

WHEN TO GRIND A PLANE IRON OR A CHISEL

WHEN THE CUTTING
EDGE IS NICKED.



WHEN THE BEVEL
HAS BEEN WORN
DOWN BY MUCH
WHETTING.



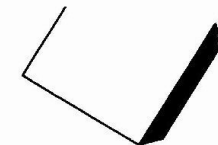
WHEN THE BEVEL
HAS BEEN ROUNDED
BY CARELESS
WHETTING.



AVOID A BEVEL TOO
LONG AND THIN.
IT IS WEAK AND WILL
NICK EASILY.



AVOID A BEVEL TOO
SHORT AND THICK IT
WILL NOT ENTER THE
WOOD EASILY.



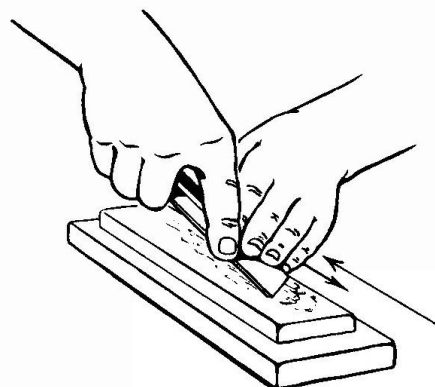
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STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S10

HOW TO WHET STANLEY PLANE IRONS

(THIS ALSO APPLIES TO CHISELS)

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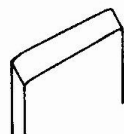
WHET THE PLANE IRON ON THE OIL STONE TO PRODUCE THE REAL SHARP CUTTING EDGE. HOLD THE PLANE IRON IN THE RIGHT HAND WITH THE LEFT HAND HELPING. PLACE THE BEVEL ON THE STONE WITH THE BACK EDGE SLIGHTLY RAISED. MOVE THE PLANE IRON BACK AND FORTH.

TO KEEP THE BEVEL STRAIGHT

BE SURE THE HANDS MOVE PARALLEL TO THE STONE SO THAT THE ANGLE BETWEEN THE PLANE IRON AND THE STONE WILL STAY THE SAME THROUGHOUT THE STROKE.

USE ENOUGH OIL TO KEEP THE SURFACE OF THE STONE MOIST. IT KEEPS THE STONE SHARP BY PREVENTING PARTICLES OF STEEL FILLING THE PORES OF THE STONE.

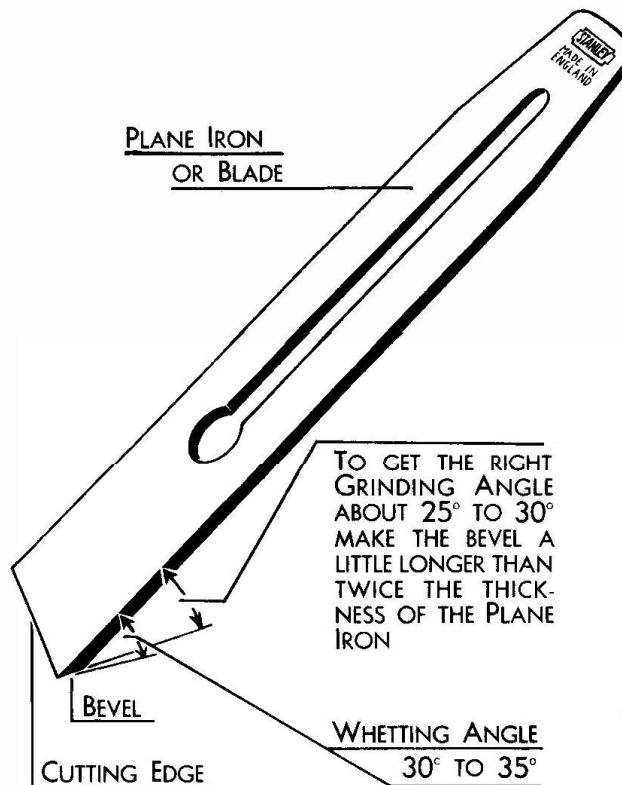
TRY TO WEAR THE STONE EVENLY.



PLANE MARKS WILL SHOW LESS ON A FINISHED SURFACE IF THE CORNERS OF THE PLANE IRON ARE SLIGHTLY ROUNDED.

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PLANE IRON
OR BLADE



TO GET THE RIGHT GRINDING ANGLE ABOUT 25° TO 30° MAKE THE BEVEL A LITTLE LONGER THAN TWICE THE THICKNESS OF THE PLANE IRON

WHETTING ANGLE
30° TO 35°

BEVEL

CUTTING EDGE

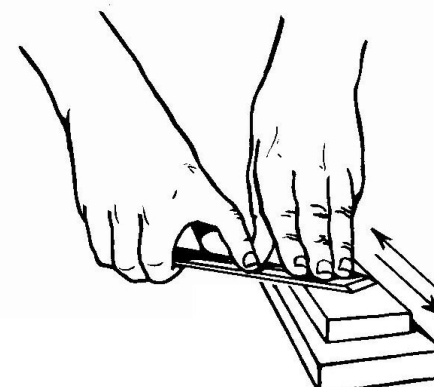


ROCKING THE PLANE IRON PRODUCES A ROUND BEVEL THAT WILL NOT CUT WELL.



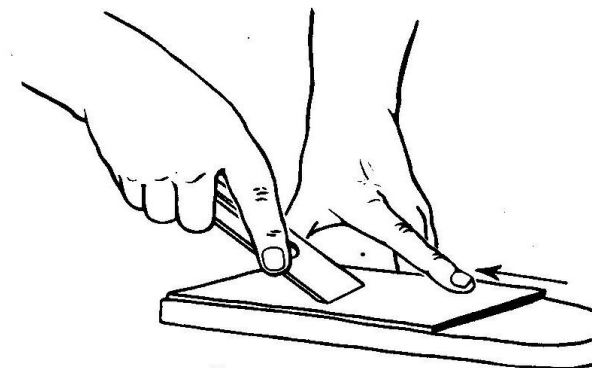
A BEVEL ON THE FLAT SIDE OF THE PLANE IRON PREVENTS THE CAP IRON FITTING TIGHT; SHAVINGS WILL CLOG THE PLANE.

STANLEY



REMOVE THE WIRE OR FEATHER EDGE BY TAKING A FEW STROKES WITH THE FLAT SIDE OF THE PLANE IRON HELD FLAT ON THE STONE. AVOID THE SLIGHTEST BEVEL ON THIS SIDE.

IF A NICK OR A SHINY EDGE OF BLUNTNESS CAN BE SEEN, REPEAT BOTH PROCESSES OF WHETTING.

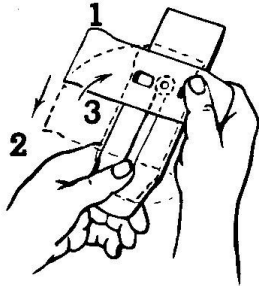


FINISH WITH A FEW STROKES ON A LEATHER STROP TO PRODUCE A KEENER EDGE.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S11

HOW TO ASSEMBLE THE STANLEY DOUBLE PLANE IRON

STANLEY



TO PUT THE PLANE IRON AND THE PLANE IRON CAP TOGETHER. 1-LAY THE PLANE IRON CAP ON THE FLAT SIDE OF THE PLANE IRON, AS SHOWN, WITH THE SCREW IN THE SLOT. 2-DRAW THE PLANE IRON CAP BACK. 3-TURN IT STRAIGHT WITH THE PLANE IRON.

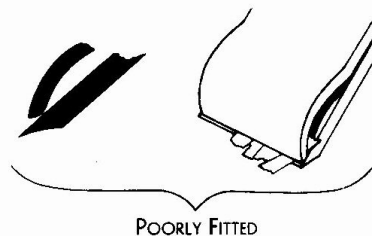
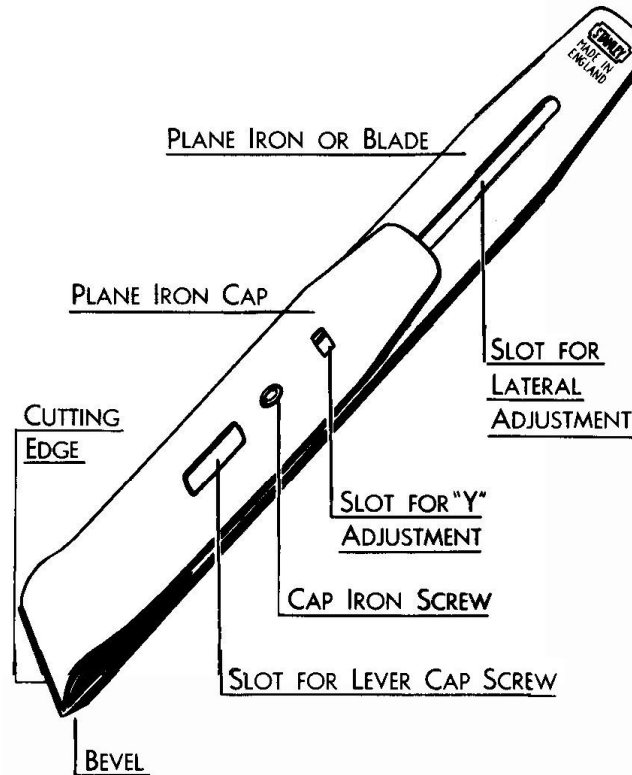


4-ADVANCE THE PLANE IRON CAP UNTIL THE EDGE IS JUST SHORT OF THE CUTTING EDGE OF THE PLANE IRON. THE PLANE IRON CAP MUST NOT BE DRAGGED ACROSS THE CUTTING EDGE.

THE PLANE IRON CAP SHOULD EXTEND $\frac{1}{16}$ " SHORT OF THE CUTTING EDGE FOR GENERAL WORK. ON CROSS GRAINED OR CURLY WOOD IT SHOULD BE AS NEAR TO THE CUTTING EDGE AS POSSIBLE.

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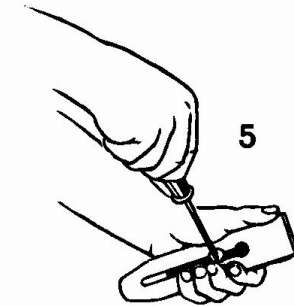
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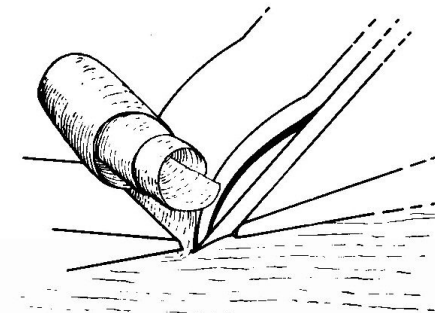
EDGE OF PLANE IRON CAP MUST FIT TIGHT TO PREVENT SHAVINGS WEDGING UNDER IT, PILING UP AND CHOKING THE PLANE.



STANLEY



5-HOLD THE PLANE IRON AND THE PLANE IRON CAP FIRMLY AND TIGHTEN THE SCREW TO HOLD THE TWO PARTS TOGETHER.

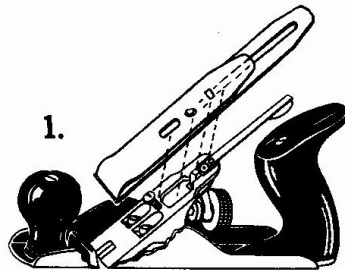


THE PLANE IRON CAP BREAKS AND CURLS THE SHAVING. TOGETHER WITH THE TOE OF THE PLANE IT PREVENTS THE WOOD SPLITTING AHEAD OF THE CUTTING EDGE, PRODUCING A SMOOTH SURFACE. THE PLANE IRON CAP ALSO SERVES TO STIFFEN THE PLANE IRON.

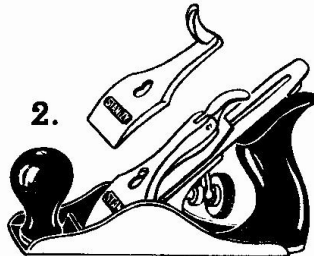
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S12

HOW TO SET THE STANLEY PLANE

STANLEY

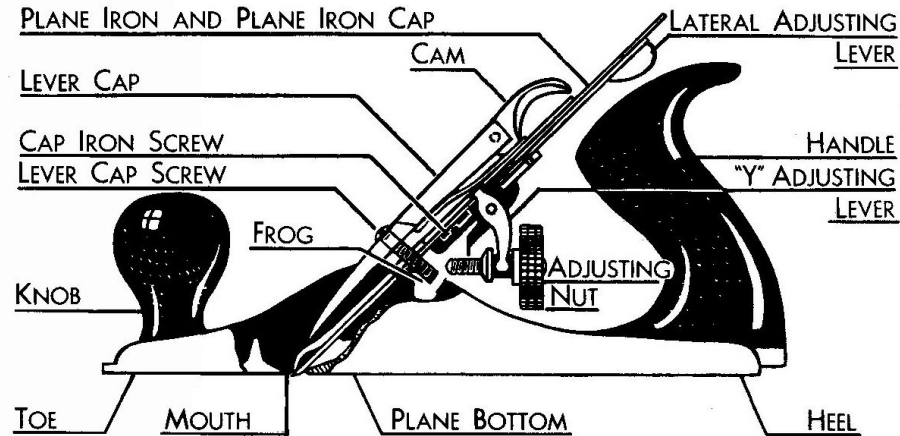


1. TO PUT THE PLANE TOGETHER LAY THE PLANE IRON, BEVEL SIDE DOWN, ON THE FROG. BE SURE THE ROLLER ON THE LATERAL ADJUSTING LEVER, THE END OF THE "Y" ADJUSTING LEVER AND THE HEAD OF THE PLANE IRON CAP SCREW ARE CORRECTLY SEATED.

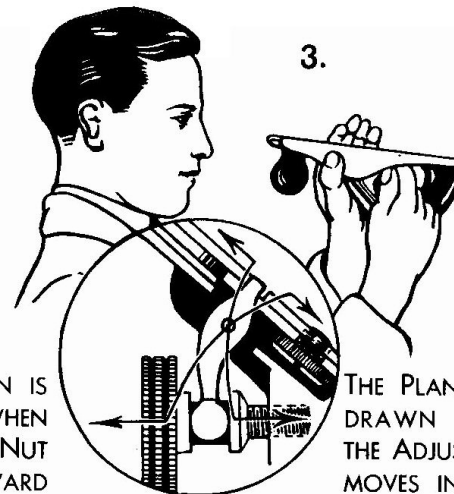


2. SLIP THE LEVER CAP UNDER THE LEVER CAP SCREW AND PRESS DOWN THE CAM. IF THE PLANE IRON IS IN THE CORRECT POSITION, THE CAM WILL EASILY SNAP IN PLACE. IF THE CAM WILL NOT SNAP IN PLACE EASILY, SLIGHTLY LOOSEN THE LEVER CAP SCREW. IF THE PLANE IRON IS NOT FIRMLY HELD WHEN THE CAM IS IN PLACE, SLIGHTLY TIGHTEN THE LEVER CAP SCREW.

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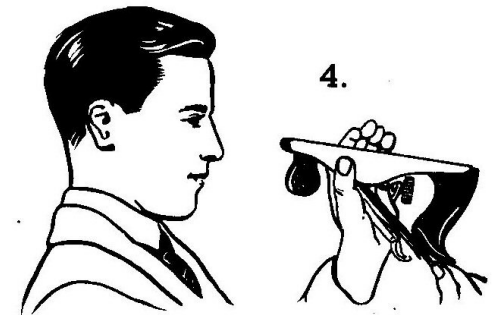
3. TO ADJUST FOR THE THICKNESS OF THE SHAVING SIGHT ALONG THE BOTTOM OF THE PLANE AND TURN THE ADJUSTING NUT UNTIL THE CUTTING EDGE PROJECTS ABOUT THE THICKNESS OF A HAIR.



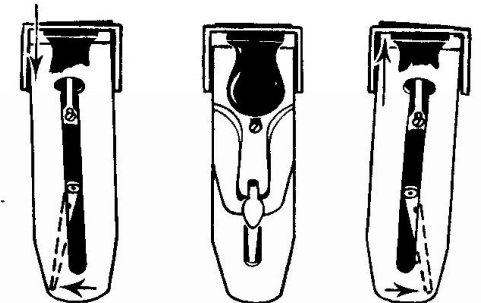
THE PLANE IRON IS PUSHED OUT WHEN THE ADJUSTING NUT MOVES OUT TOWARD THE HANDLE.

THE PLANE IRON IS DRAWN IN WHEN THE ADJUSTING NUT MOVES IN TOWARD THE FROG.

STANLEY



4. TO ADJUST FOR THE EVENNESS OF THE SHAVING SIGHT ALONG THE BOTTOM OF THE PLANE AND MOVE THE LATERAL ADJUSTING LEVER TOWARD THE RIGHT OR THE LEFT.



KNOB, LEVER CAP AND PLANE IRON CAP REMOVED TO SHOW THE ACTION OF THE LATERAL ADJUSTING LEVER.

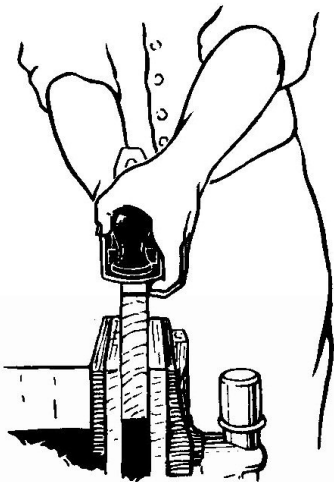
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S13

HOW TO USE THE STANLEY PLANE

STANLEY

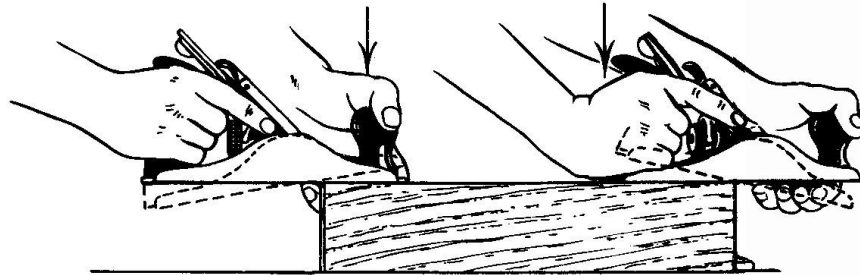


TO START PLANING TAKE AN EASY BUT FIRM POSITION DIRECTLY BEHIND THE WORK.

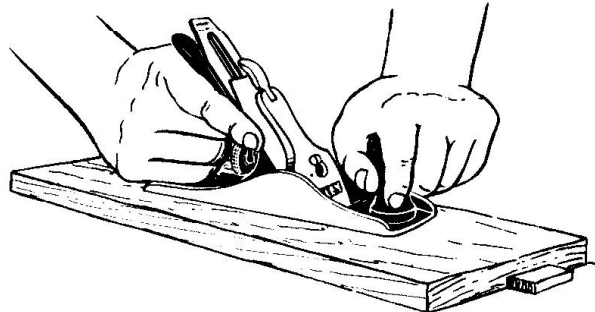


HOLD THE PLANE SQUARE WITH THE FACE SIDE OF THE WORK.

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TO CUT A SMOOTH STRAIGHT EDGE THE PLANE IS PUSHED WITH THE GRAIN, THAT IS IN THE UP HILL DIRECTION OF THE FIBRES.
TO KEEP THE PLANE STRAIGHT PRESS DOWN ON THE KNOB AT THE BEGINNING OF THE STROKE AND ON THE HANDLE AT THE END OF THE STROKE. AVOID DROPPING THE PLANE AS SHOWN BY THE BROKEN LINES. IT ROUNDS THE CORNERS.



TO OBTAIN A SMOOTH SURFACE PLANE WITH THE GRAIN. IF THE GRAIN IS TORN OR ROUGH AFTER THE FIRST STROKE REVERSE THE WORK. IF THE GRAIN IS CROSS OR CURLY, SHARPEN THE PLANE IRON CAREFULLY, SET THE PLANE IRON CAP AS NEAR THE CUTTING EDGE AS POSSIBLE AND ADJUST THE PLANE IRON TO TAKE A VERY THIN EVEN SHAVING.

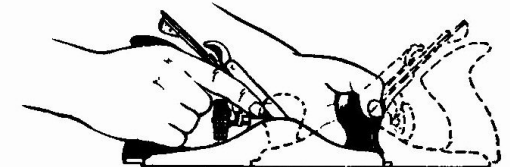


IT IS EASIER TO PLANE A LONG EDGE STRAIGHT WITH A LONG PLANE THAN WITH A SHORT ONE. A LONG PLANE BRIDGES THE LOW PARTS AND DOES NOT CUT THEM UNTIL THE HIGH SPOTS ARE REMOVED.

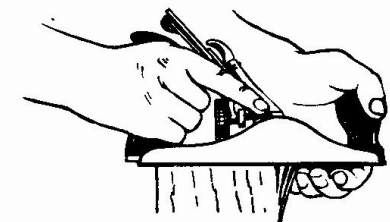
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AT THE END OF THE STROKE THE WEIGHT OF THE BODY SHOULD BE CARRIED EASILY ON THE LEFT FOOT.



PLANE END GRAIN
HALF WAY FROM EACH EDGE.



IF THE PLANE IS PUSHED ALL THE WAY THE CORNERS WILL BREAK.

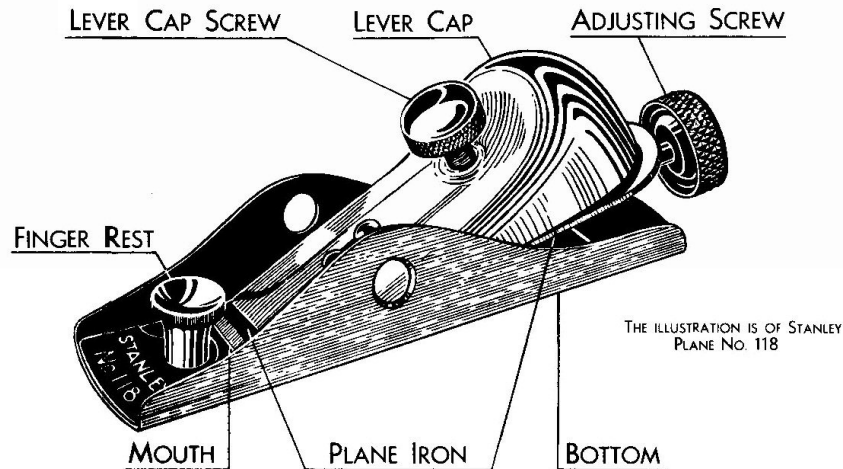
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S14

HOW TO ADJUST AND USE THE STANLEY BLOCK PLANE

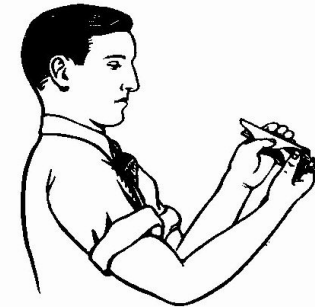
STANLEY



TO ADJUST THE PLANE IRON VERTICALLY, FOR THE THICKNESS OF THE SHAVINGS, SIGHT ALONG THE PLANE BOTTOM AND TURN THE ADJUSTING SCREW FORWARD TO PUSH THE PLANE IRON OUT, OR TURN IT BACK TO PULL THE PLANE IRON IN.



STANLEY



TO ADJUST THE PLANE IRON Laterally FOR EVENNESS OF SHAVINGS, LOOSEN THE LEVER CAP SCREW, SIGHT ALONG THE PLANE BOTTOM, PRESS THE PLANE IRON TO THE RIGHT OR TO THE LEFT AND TIGHTEN THE LEVER CAP SCREW.

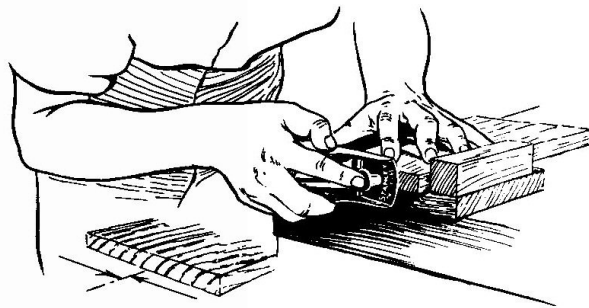
KEEP YOUR PLANE SHARP

SEE STANLEY CHARTS No. S10 AND No. S11 FOR GRINDING AND WHETTING PLANE IRONS. THE SAME APPLIES TO CHISELS.

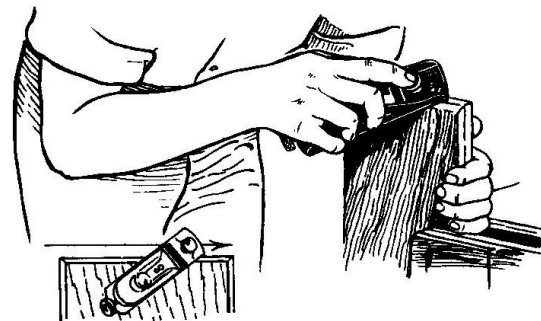
THE BLOCK PLANE HAS A SINGLE PLANE IRON SET AT A LOWER ANGLE THAN THE PLANE IRON OF THE SMOOTH PLANE, ENABLING IT TO CUT END GRAIN BETTER THAN OTHER PLANES. BECAUSE OF THE LOW ANGLE, THE PLANE IRON IS SET BEVEL UP.



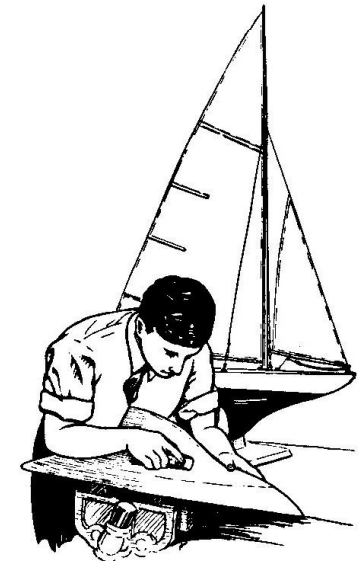
THE BLOCK PLANE IS USED TO PLANE SMALL PIECES AND TO PLANE THE ENDS OF MOULDINGS, TRIM AND SIDING.



THE BLOCK PLANE IS A TOOL USED IN ONE HAND. THIS MAKES IT EASY TO USE WHEN THE WORK CANNOT BE TAKEN TO A VICE.



THE BLOCK PLANE IS THE HANDIEST TOOL FOR PLANING CORNERS AND CHAMFERS ON SMALL PIECES OF WOOD.



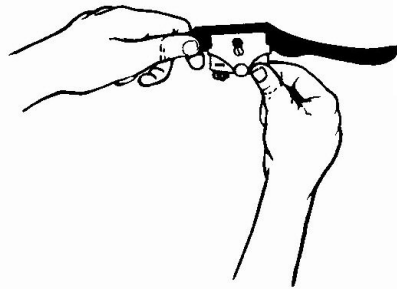
THE BLOCK PLANE IS INDISPENSABLE IN SHAPING HULLS AND SPARS OF MODEL BOATS AND THE PARTS OF MODEL AEROPLANES.

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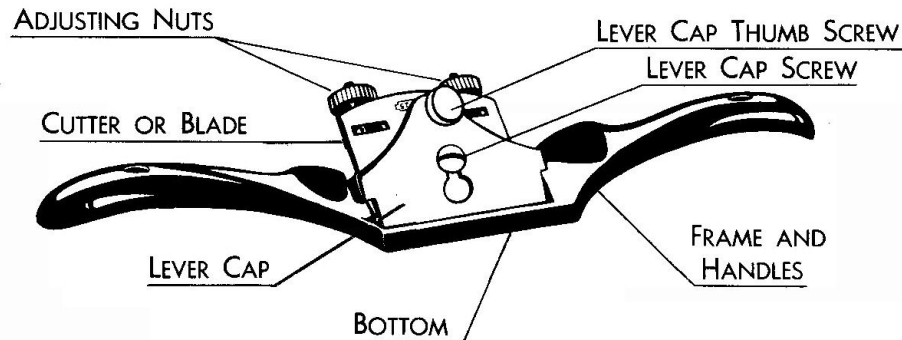
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S15

HOW TO USE THE STANLEY SPOKE SHAVES

STANLEY



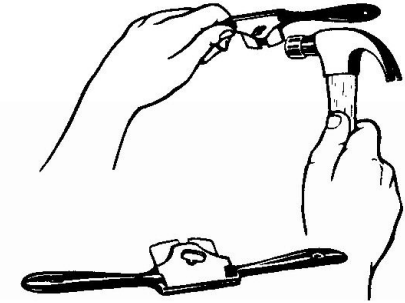
TO SET A STANLEY NO. 151 SPOKE SHAVE, HOLD THE SPOKE SHAVE WITH THE BOTTOM IN LINE WITH THE EYE. SEE STANLEY PLANE CHART NO. S13. TURN THE ADJUSTING NUTS UNTIL THE CUTTING EDGE PROJECTS FOR AN EVEN SHAVING AND ABOUT THE THICKNESS OF A HAIR. TEST FOR DEPTH OF CUT.



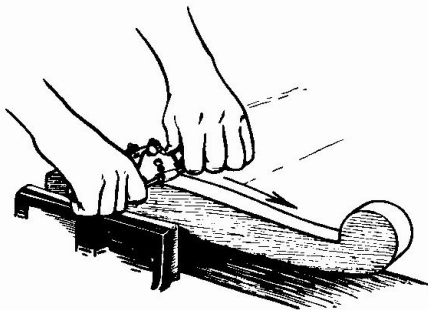
THE ILLUSTRATION IS OF STANLEY ADJUSTABLE SPOKE SHAVE NO. 151

THE SPOKE SHAVE IS PRACTICALLY A PLANE WITH THE BOTTOM SHORT ENOUGH TO FOLLOW CURVES. THE BLADE OR CUTTER OF THE IRON SPOKE SHAVE IS SHARPENED LIKE A PLANE BLADE. SEE STANLEY CHARTS NO. S10 AND NO. S11.

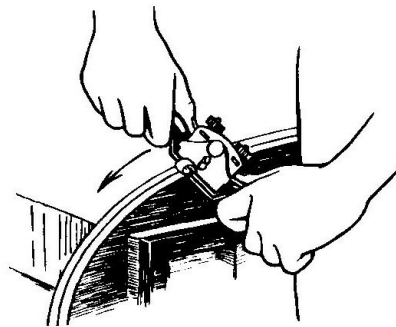
STANLEY



TO SET A SPOKE SHAVE WITHOUT ADJUSTING NUTS, SUCH AS THE STANLEY CONVEX BOTTOM SPOKE SHAVE NO. 63, GENTLY TAP THE END OF THE BLADE TO MAKE IT PROJECT THE THICKNESS OF A HAIR. TO ADJUST THE BLADE LATERALLY, TO TAKE AN EVEN SHAVING, TAP IT ON THE SIDE THAT PROJECTS TOO MUCH TO DRAW IT IN. TIGHTEN THE THUMB SCREW.



THE SPOKE SHAVE IS USUALLY PUSHED. THE FLAT BOTTOM SPOKE SHAVE IS USED ON CONVEX AND CONCAVE EDGES WHERE THE CURVES HAVE A LONG SWEEP. CARE MUST BE EXERCISED TO CUT WITH THE GRAIN OF THE WOOD.



THE SPOKE SHAVE IS ALSO USED TO CHAMFER AND TO ROUND EDGES.



THE CONVEX BOTTOM SPOKE SHAVE NO. 63 IS DESIGNED TO CUT CONCAVE CURVED EDGES HAVING SMALL SWEEPS.

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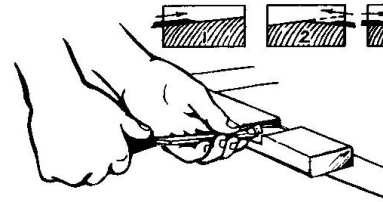
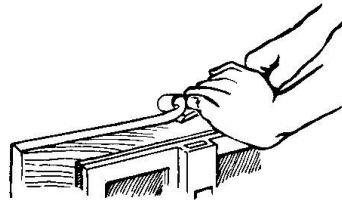
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S16

HOW TO USE THE STANLEY CHISEL HORIZONTAL CHISELLING

STANLEY

STANLEY

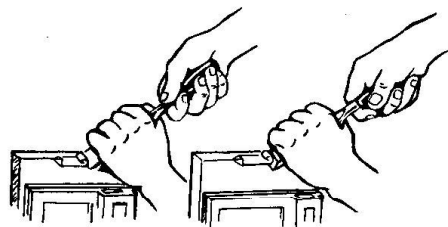
TO CUT HORIZONTALLY WITH THE GRAIN, THE CHISEL IS HELD SLIGHTLY TURNED TO ONE SIDE AND THEN PUSHED FROM THE WORKER. IT IS HELD WITH THE BEVEL DOWN FOR A ROUGHING CUT AND WITH THE BEVEL UP FOR A PARING CUT.



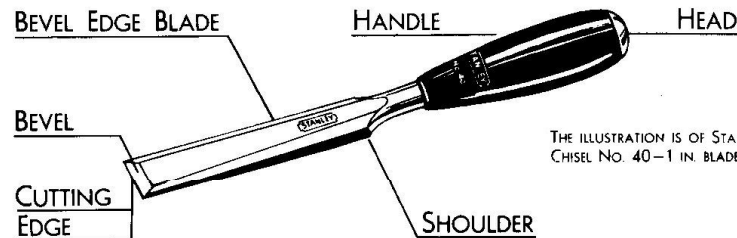
TO CUT HORIZONTALLY ACROSS THE GRAIN WITH THE WORK HELD IN THE VICE, PRESS THE FOREFINGER AND THUMB TOGETHER ON THE CHISEL TO ACT AS A BRAKE. TO AVOID SPLINTERING THE CORNERS, CUT HALF WAY FROM EACH EDGE TOWARD THE CENTRE. REMOVE THE CENTRE LAST.

KEEP YOUR CHISEL SHARP

SEE STANLEY CHARTS NO. S10 AND NO. S11 FOR GRINDING AND WHETTING PLANE IRONS. THE SAME APPLIES TO CHISELS.

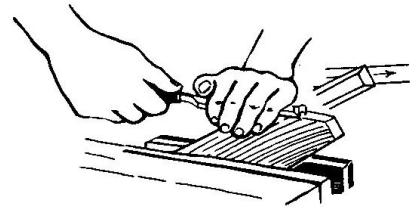


TO CUT A CHAMFER, HOLD THE CHISEL INCLINED TO ONE SIDE PARALLEL TO THE SLOPE OF THE CHAMFER AND CUT AS IN CHISELLING HORIZONTALLY WITH THE GRAIN.

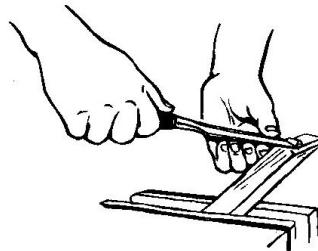


THE CHISEL IS CONTROLLED WITH THE LEFT HAND PRESSING FIRMLY ON THE CHISEL AND THE WOOD. THE POWER IS APPLIED WITH RIGHT HAND. THE CHISEL IS HELD SLIGHTLY TURNED SO THE EDGE SLIDES ACROSS THE WORK OR THE CHISEL IS MOVED TO THE RIGHT AND LEFT AS IT IS ADVANCED, TO GIVE A SLIDING ACTION TO THE CUTTING EDGE. THIS IS EASIER THAN A STRAIGHT THRUST AND LEAVES A SMOOTHER SURFACE ON THE WORK.

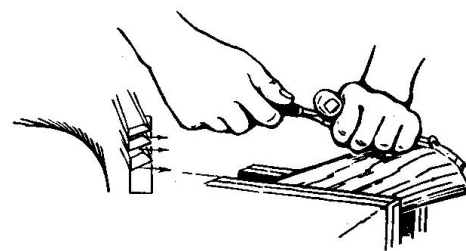
AT ALL TIMES KEEP BOTH HANDS BEHIND THE CUTTING EDGE.



TO CUT A STRAIGHT SLANTING CORNER IS THE SAME AS HORIZONTAL CHISELLING. THE WORK IS HELD IN THE VICE WITH THE GUIDE LINE HORIZONTAL.



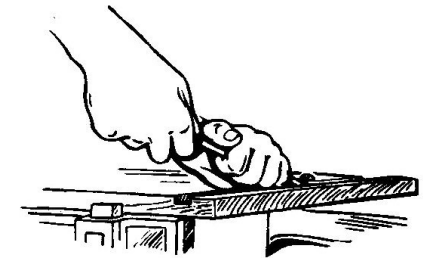
TO CUT A CHAMFER ON END GRAIN, THE CHISEL IS MOVED SIDEWAYS ACROSS THE CORNER OF THE WORK, HELD SO THAT THE CHISEL MAKES A SLIDING HORIZONTAL CUT.



TO CUT A ROUND CORNER, THE CHISEL IS MOVED SIDEWAYS ACROSS THE WORK MAKING A SERIES OF CUTS CLOSE TOGETHER, EACH ONE A TANGENT TO THE CURVE.



TO CUT ACROSS THE GRAIN WITH THE WORK HELD AGAINST THE BENCH HOOK, THE HEEL OF THE LEFT HAND STEADIES THE WORK WHILE THE FINGERS PRESS THE CHISEL FIRMLY AGAINST THE WOOD.



IF THE WORK IS WIDE THE CHISEL IS HELD BEVEL DOWN, SO THE HANDLE WILL CLEAR THE WORK AND THE BLADE WILL NOT DIG IN TOO DEEP AS IT IS PUSHED FORWARD.

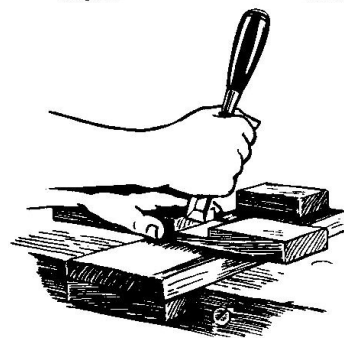
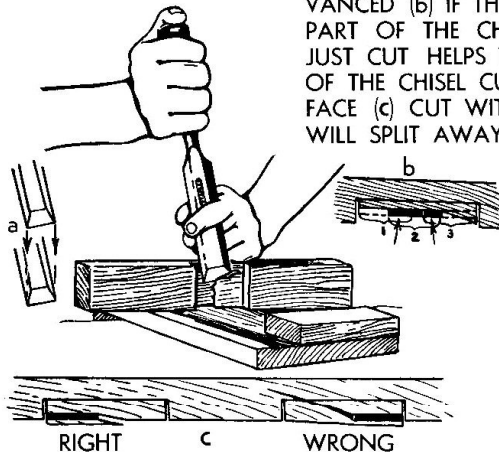
STANLEY WORKS (G.B.) LTD.
SHEFFIELD, ENGLAND.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S17

HOW TO USE THE STANLEY CHISEL VERTICAL CHISELLING

STANLEY

TO CUT VERTICALLY ACROSS THE GRAIN, (a) THE CHISEL SHOULD BE SLIGHTLY TILTED TO ONE SIDE TO GIVE A SLIDING ACTION TO THE CUTTING EDGE, OR IT MAY BE HELD STRAIGHT AND MOVED TO ONE SIDE AS IT IS ADVANCED (b) IF THE SURFACE IS WIDER THAN THE CHISEL, PART OF THE CHISEL PRESSED AGAINST THE PORTION JUST CUT HELPS TO GUIDE AND KEEP IN LINE THE PART OF THE CHISEL CUTTING A NEW PORTION OF THE SURFACE (c) CUT WITH THE GRAIN, SO THE WASTE WOOD WILL SPLIT AWAY FROM THE GUIDE LINE.



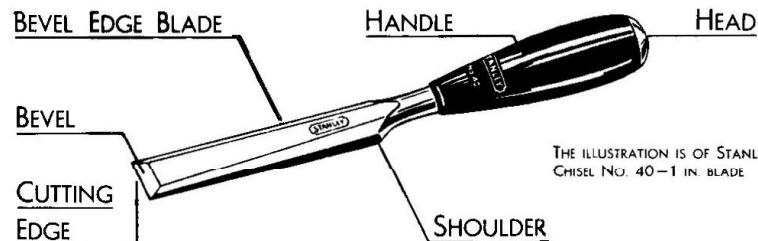
TO CLEAN THE CORNERS OF A TENON, NOTCH, OR RABBIT, GRASP THE CHISEL BY THE BLADE NEAR THE EDGE, RAISE ONE CORNER OF THE CUTTING EDGE BY TILTING THE HANDLE AWAY AND DRAW THE CHISEL TOWARD YOU. THE WORK IS HELD BY THE LEFT HAND WHILE THE CHISEL EDGE AND ONE CORNER, GUIDED BY THE RIGHT HAND, ACT LIKE A KNIFE.

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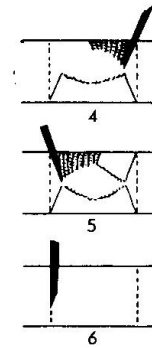
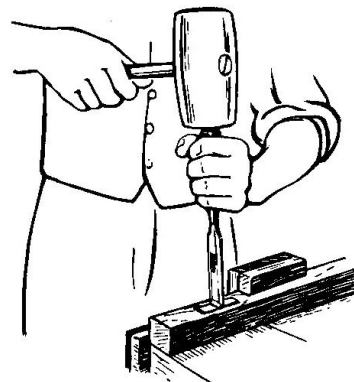
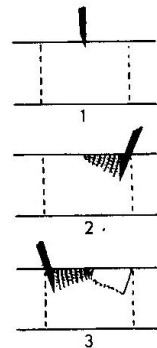
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KEEP YOUR CHISEL SHARP

SEE STANLEY CHARTS NO. S10 AND NO. S11 FOR GRINDING AND WHETTING PLANE IRONS. THE SAME APPLIES TO CHISELS.

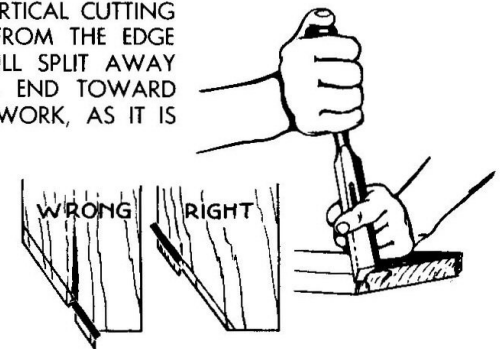


THE ILLUSTRATION IS OF STANLEY CHISEL NO. 40-1 IN BLADE



THE Mallet MAY BE SAFELY USED ON THE CHISEL WHEN THE CUTTING EDGE IS ACROSS THE GRAIN. WHEN THE EDGE IS WITH THE GRAIN, THE USE OF THE Mallet IS VERY LIKELY TO SPLIT THE WOOD. THE Mallet MAY BE USED ON THE CHISEL TO CHOP OUT A MORTISE, TO CUT THE ENDS OF A MORTISE (WHEN THE BULK OF THE MATERIAL HAS BEEN BORED OUT), WHEN THE WOOD IS HARD, AND IN ROUGHING OUT (WHEN THERE IS A LARGE AMOUNT OF MATERIAL TO BE REMOVED).

STANLEY



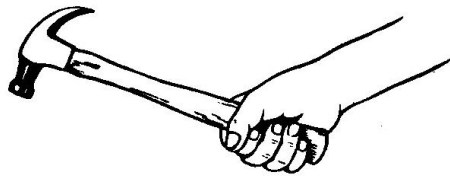
TO CUT A CONCAVE CURVED CORNER, HOLD THE BEVEL SIDE OF THE CHISEL AGAINST THE WORK WITH THE LEFT HAND; WITH THE RIGHT HAND PRESS DOWN AND DRAW BACK AT THE SAME TIME, GIVING A SWEEPING CURVED DIRECTION TO THE CUT. ALWAYS WORK WITH THE GRAIN FROM THE EDGE TOWARD THE END.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S18

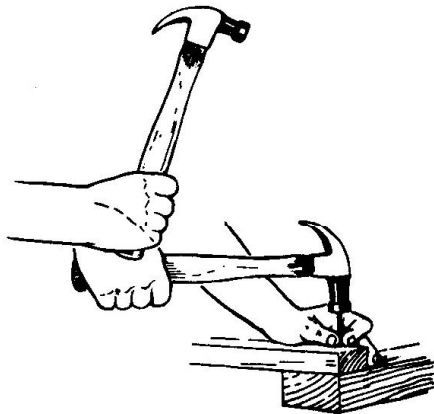
HOW TO USE THE STANLEY NAIL HAMMER

STANLEY

STANLEY

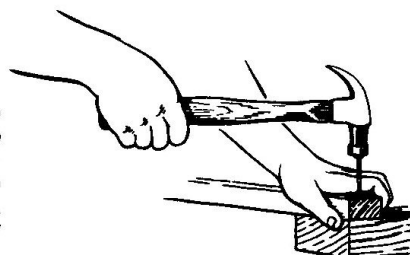


GRASP THE HAMMER FIRMLY NEAR THE END.

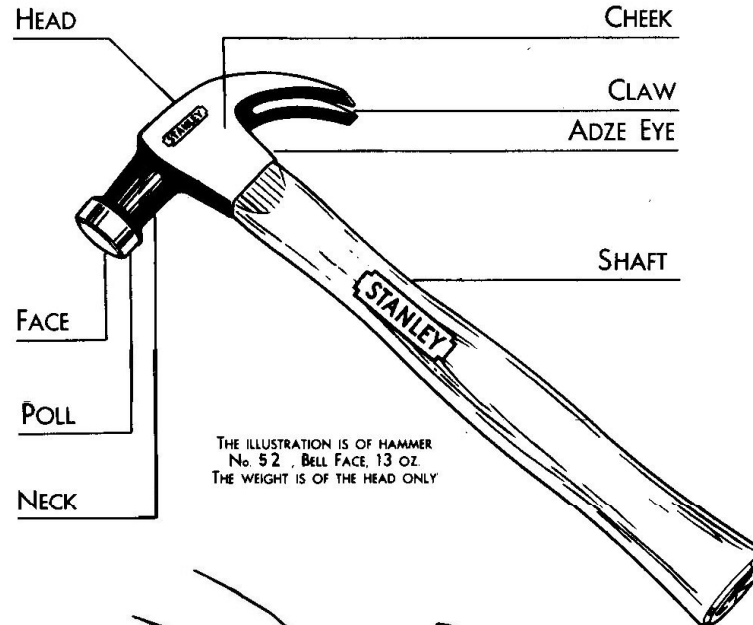


THE BLOW IS DELIVERED THROUGH THE WRIST, THE ELBOW AND THE SHOULDER, ONE OR ALL BEING BROUGHT INTO PLAY ACCORDING TO THE STRENGTH OF THE BLOW TO BE STRUCK. REST THE FACE OF THE HAMMER ON THE NAIL, DRAW THE HAMMER BACK AND GIVE A LIGHT TAP TO START THE NAIL AND TO DETERMINE THE AIM.

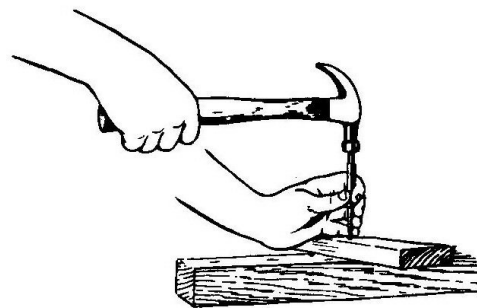
STRIKE THE NAIL SQUARELY TO AVOID MARRING THE WOOD AND BENDING THE NAIL. KEEP THE FACE OF THE HAMMER CLEAN TO AVOID SLIPPING OFF THE NAIL. IF A NAIL BENDS DRAW IT AND START A NEW ONE IN A NEW PLACE.



ALWAYS STRIKE WITH THE FACE OF THE HAMMER. IT IS HARDENED FOR THAT PURPOSE. DO NOT DAMAGE THE FACE BY STRIKING STEEL HARDER THAN ITSELF. DO NOT STRIKE WITH THE CHEEK AS IT IS THE WEAKEST PART.

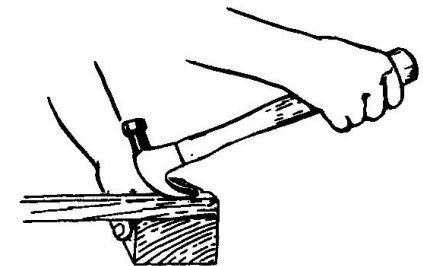


THE ILLUSTRATION IS OF HAMMER No 52, BELL FACE, 13 OZ. THE WEIGHT IS OF THE HEAD ONLY



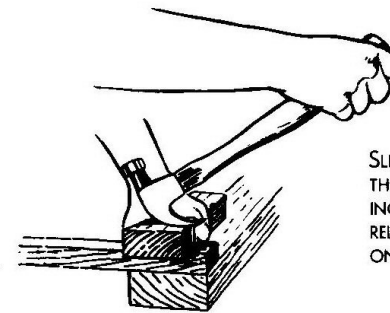
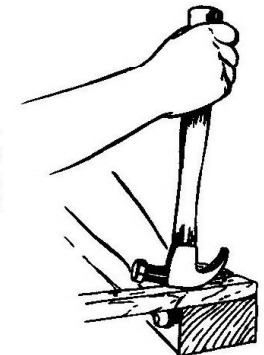
USE A NAIL PUNCH TO DRIVE NAILS BELOW THE SURFACE OF ALL FINE WORK. TO PREVENT THE NAIL PUNCH SLIPPING OFF THE HEAD OF THE NAIL, REST THE LITTLE FINGER ON THE WORK AND PRESS THE NAIL PUNCH FIRMLY AGAINST IT. PUNCH NAILS ABOUT 1/16" BELOW THE SURFACE OF THE WOOD.

A BELL FACE HAMMER IS SLIGHTLY MORE CONVEX THAN A PLAIN FACE HAMMER. WITH IT A NAIL CAN BE DRIVEN FLUSH, OR SLIGHTLY BELOW THE SURFACE OF THE WORK, WITHOUT LEAVING HAMMER MARKS IN THE WOOD.



TO DRAW A NAIL, SLIP THE CLAW OF THE HAMMER UNDER THE NAIL HEAD, PULL UNTIL THE SHAFT IS NEARLY VERTICAL AND THE NAIL PARTLY DRAWN.

IF THE PULL IS CONTINUED, UNNECESSARY FORCE IS REQUIRED THAT WILL BEND THE NAIL, MAR THE WOOD AND PERHAPS BREAK THE HAMMER SHAFT.



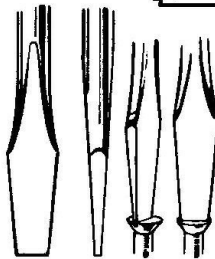
SLIP A PIECE OF WOOD UNDER THE HEAD OF THE HAMMER TO INCREASE THE LEVERAGE AND TO RELIEVE THE UNNECESSARY STRAIN ON THE SHAFT.

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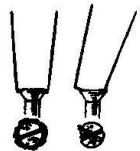
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S20

HOW TO USE THE STANLEY SCREW DRIVER AND INFORMATION FOR DRIVING SCREWS

STANLEY



SELECT A SCREW DRIVER OF LENGTH AND TIP FITTED TO THE WORK. SCREW DRIVERS ARE SPECIFIED BY THE LENGTH OF THE BLADE. THE TIP SHOULD BE STRAIGHT AND NEARLY PARALLEL SIDED. IT SHOULD ALSO FIT THE SCREW SLOT AND BE NOT WIDER THAN THE SCREW HEAD.



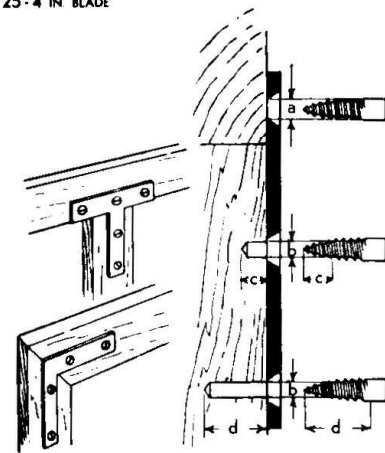
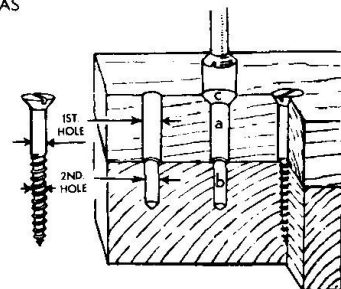
IF THE TIP IS TOO WIDE IT WILL SCAR THE WOOD AROUND THE SCREW HEAD. IF THE SCREW DRIVER IS NOT HELD IN LINE WITH THE SCREW IT WILL SLIP OUT OF THE SLOT AND MAR BOTH THE SCREW AND THE WORK.



IF THE TIP IS ROUNDED OR BEVELLED IT WILL RAISE OUT OF THE SLOT, SPOILING THE SCREW HEAD. REGRIND OR FILE THE TIP TO MAKE IT AS SHOWN ABOVE.

TO FASTEN TWO PIECES OF WOOD TOGETHER WITH SCREWS.

1. LOCATE THE POSITIONS OF THE SCREW HOLES.
2. BORE THE FIRST HOLE IN THE FIRST PIECE OF WOOD SLIGHTLY LARGER THAN THE DIAMETER OF THE SCREW SHANK, AS AT a.
3. BORE THE SECOND HOLE SLIGHTLY SMALLER THAN THE THREADED PART OF THE SCREWS, AS AT b. BORE AS DEEP AS HALF THE LENGTH OF THE THREADED PART.
4. COUNTERSINK THE FIRST HOLES TO MATCH THE DIAMETER OF THE HEADS OF THE SCREWS, AS AT c.
5. DRIVE THE SCREWS TIGHTLY IN PLACE WITH THE SCREW DRIVER.

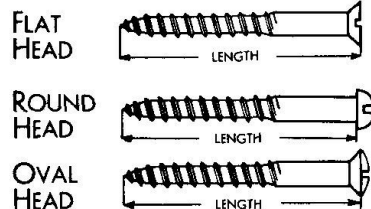


THE ILLUSTRATION IS OF
STANLEY SCREW DRIVER NO. 25-4 IN BLADE

SIZES OF BITS OR DRILLS TO BORE HOLES FOR WOOD SCREWS

NUMBER OF SCREW	1	2	3	4	5	6	7	8	9	10	12	14	16	18
BODY DIAMETER OF SCREW	073 5/64	086 3/32	099 7/64	112 1/8	125 9/64	138 5/32	151 11/64	164 3/16	177 7/32	190 1/2	216 5/8	242 3/4	268 7/8	294 1
FIRST HOLE	TWIST DRILL SIZE AUGER BIT NUMBER		5/64	3/32	7/64	1/8	9/64	5/32	11/64	3/16	7/32	1/2	5/8	3/4
SECOND HOLE			1/16	1/8	5/64	3/32	7/64	1/8	5/32	3/16	7/32	1/2	5/8	3/4

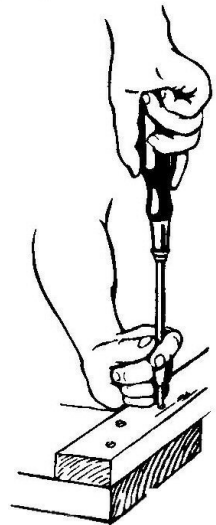
EXACT SIZES CANNOT BE GIVEN FOR THE HOLES FOR WOOD SCREWS. THE ABOVE ARE APPROXIMATELY RIGHT FOR AVERAGE NEEDS. VARIATIONS IN HARD AND SOFT WOOD, MOISTURE CONTENT AND SNUG OR LOOSE FITS, IF DESIRED, SHOULD BE CONSIDERED. NUMBER AND LETTER SIZES OF DRILLS ARE AVAILABLE, IF MORE EXACT SIZES ARE WANTED. A TRIAL FIT IN SCRAP WOOD IS PRACTICAL.



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STANLEY

USE THE LONGEST SCREW DRIVER CONVENIENT FOR THE WORK. MORE POWER CAN BE APPLIED TO A LONG SCREW DRIVER THAN A SHORT ONE, WITH LESS DANGER OF ITS SLIPPING OUT OF THE SLOT. HOLD THE HANDLE FIRMLY IN THE PALM OF THE RIGHT HAND WITH THE THUMB AND FOREFINGER GRASPING THE HANDLE NEAR THE FERRULE. WITH THE LEFT HAND STEADY THE TIP AND KEEP IT PRESSED INTO THE SLOT WHILE RENEWING THE GRIP ON THE HANDLE FOR A NEW TURN.



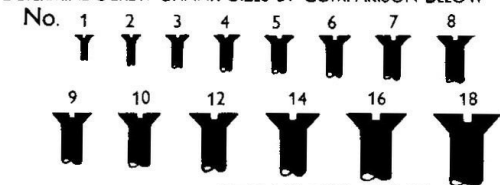
IF NO HOLE IS BORED FOR THE THREADED PART OF THE SCREW THE WOOD IS OFTEN SPLIT OR THE SCREW IS TWISTED OFF. IF A SCREW TURNS TOO HARD, BACK IT OUT AND ENLARGE THE HOLE. A LITTLE SOAP ON THE THREADS OF THE SCREW MAKES IT EASIER TO DRIVE.

TO FASTEN HINGES OR OTHER HARDWARE IN PLACE WITH SCREWS.

1. LOCATE THE POSITION OF THE PIECE OF HARDWARE ON THE WORK.
2. RECESS THE WORK TO RECEIVE THE HARDWARE, IF IT IS NECESSARY.
3. LOCATE THE POSITIONS OF THE SCREWS.
4. SELECT SCREWS THAT WILL EASILY PASS THROUGH THE HOLES IN THE HARDWARE, AS AT a.
5. BORE THE PILOT HOLES (SECOND HOLE) SLIGHTLY SMALLER THAN THE DIAMETER OF THE THREADED PART OF THE SCREWS, AS AT b.
6. DRIVE THE SCREWS TIGHTLY IN PLACE.

IF THE WOOD IS SOFT, BORE AS DEEP AS HALF THE LENGTH OF THE THREADED PART OF THE SCREW, AS AT c. IF THE WOOD IS HARD (OAK), THE SCREW SOFT (BRASS), OR IF THE SCREW IS LARGE, THE HOLE MUST BE NEARLY AS DEEP AS THE SCREW, AS AT d. HOLES FOR SMALL SCREWS ARE USUALLY MADE WITH A BRADAWL.

DETERMINE SCREW SHANK SIZES BY COMPARISON BELOW

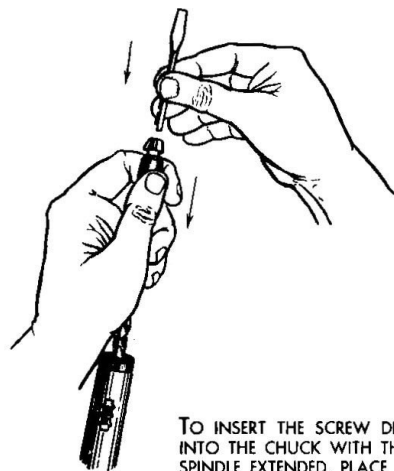


STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S21

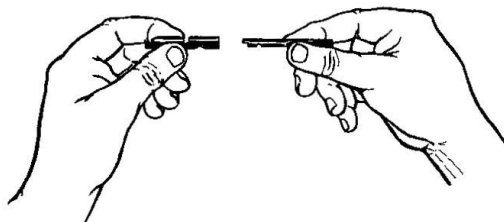
HOW TO USE THE "YANKEE" SPIRAL RATCHET SCREW DRIVER

STANLEY

STANLEY



TO INSERT THE SCREW DRIVER BIT INTO THE CHUCK WITH THE SPIRAL SPINDLE EXTENDED, PLACE THE RATCHET SHIFTER IN THE CENTRE POSITION. PULL THE CHUCK SLEEVE DOWN. INSERT THE BIT. TURN THE BIT UNTIL YOU FEEL IT IS SEATED. RELEASE THE CHUCK SLEEVE.



WITH THE DRILL POINTS AND CHUCK ADAPTOR THE SPIRAL RATCHET SCREW DRIVER BECOMES AN AUTOMATIC PUSH DRILL. A DRILL POINT IS INSERTED INTO THE CHUCK ADAPTOR. TURN THE DRILL POINT UNTIL YOU FEEL IT IS SEATED. THE TWO ASSEMBLED PIECES ARE THEN PLACED IN THE CHUCK IN THE SAME MANNER AS A SCREW DRIVER BIT.



DRILL POINT

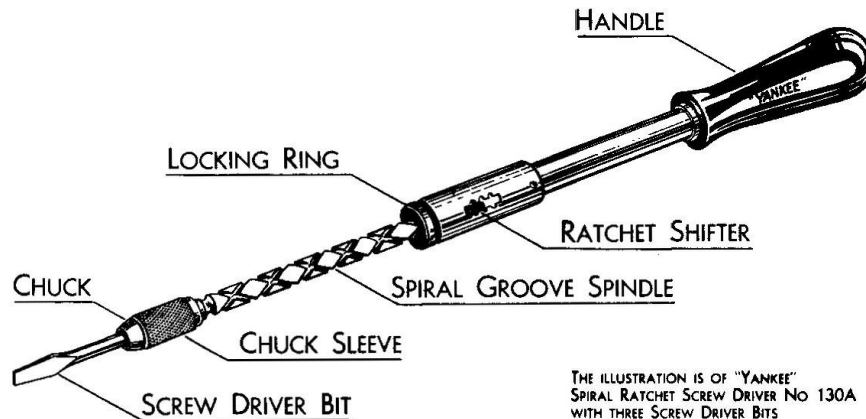


COUNTERSINK

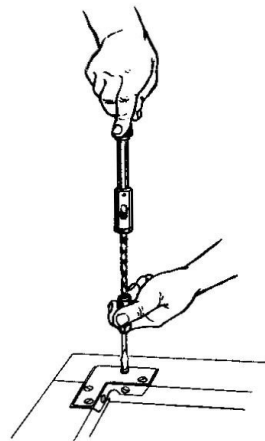
THERE ARE EIGHT DRILL POINTS, SIZES 1/16" TO 11/64". THE COUNTERSINK ALSO FITS INTO THE SCREW DRIVER CHUCK.

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THE ILLUSTRATION IS OF "YANKEE" SPIRAL RATCHET SCREW DRIVER NO 130A WITH THREE SCREW DRIVER BITS



THE YANKEE SPIRAL RATCHET SCREW DRIVER IS MOST USEFUL FOR THE RAPID DRIVING OR DRAWING OF SCREWS OR FOR USE IN AWKWARD PLACES. IT IS ESPECIALLY PRACTICAL IN REPETITIVE PRODUCTION WORK IN INDUSTRY. IT CAN BE STEADIED BY HOLDING THE REVOLVING CHUCK SLEEVE WITH THE FINGERS OF THE LEFT HAND.



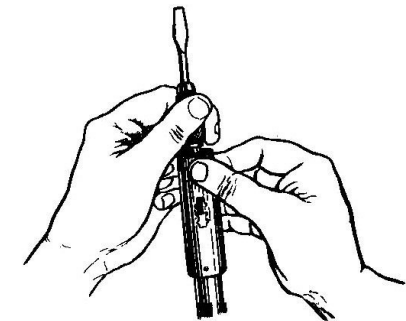
TO DRIVE SCREWS OR DRILL HOLES WITH QUICK RETURN SPIRAL RATCHET ACTION, SET THE RATCHET SHIFTER IN THE POSITION NEAREST TO THE CHUCK.



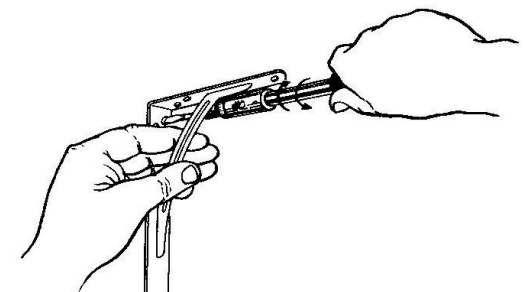
TO USE AS A LONG RIGID SCREW DRIVER, WITHOUT SPIRAL OR RATCHET ACTION, SET THE RATCHET SHIFTER IN THE CENTRE POSITION.



TO DRAW SCREWS WITH QUICK RETURN SPIRAL RATCHET ACTION, SET THE RATCHET SHIFTER IN THE POSITION NEAREST THE HANDLE.



TO USE AS A RATCHET SCREW DRIVER DRAW THE SPINDLE IN, THEN TURN THE LOCKING RING TO THE LEFT TO LOCK IT. VARY THE SHIFTER POSITION TO CHANGE THE RATCHET ACTION. TO RELEASE THE SPIRAL SPINDLE SAFELY, HOLD IT BY THE CHUCK WHILE TURNING THE LOCKING RING TO THE RIGHT, SO THE SPINDLE WILL NOT FLY OUT.



AS A RATCHET SCREW DRIVER, THE SCREW IS DRIVEN OR DRAWN BY TURNING THE HAND RIGHT AND LEFT. THE LEFT HAND IS FREE TO HOLD THE WORK, AFTER THE SCREW IS STARTED.



HEAVY DUTY BIT



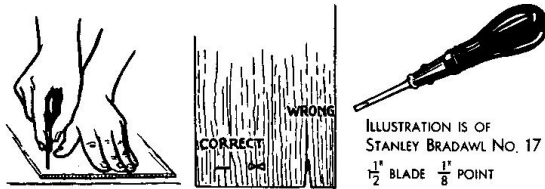
PHILLIPS SCREW DRIVER BIT

THE HEAVY DUTY AND THE PHILLIPS SCREW DRIVER BITS ARE ACCESSORIES THAT ADD TO THE USEFULNESS OF THIS TOOL.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S22

HOW TO USE BORING TOOLS

STANLEY



BRADAWLS ARE USED TO MAKE HOLES FOR SMALL SCREWS AND NAILS. TO AVOID SPLITTING THE WOOD, START THE AWL WITH ITS EDGE ACROSS THE GRAIN, TURNING IT BACK AND FORTH SLIGHTLY AS YOU PRESS DOWN. DO NOT LET THE EDGE COME PARALLEL WITH THE GRAIN.



TWIST BITS FOR WOOD ARE USED TO MAKE HOLES FOR SCREWS, NAILS OR BOLTS. THEY ARE SIZED BY 32NDS OF AN INCH AND RANGE FROM NO. 2-1/16" AND LARGER.



BIT STOCK DRILLS ARE DESIGNED AND TEMPERED TO MAKE HOLES IN METAL, BUT MAY ALSO BE USED IN WOOD, ESPECIALLY IN REPAIR WORK WHERE CONTACT WITH NAILS OR METAL IS POSSIBLE. THEY ARE SIZED BY 32NDS OF AN INCH AND RANGE FROM NO. 2 = 1/16" AND LARGER.

ILLUSTRATION IS OF STANLEY COUNTERSINK NO. 139 FOR BIT BRACES



ILLUSTRATION IS OF STANLEY COUNTERSINK NO. 137 FOR HAND DRILLS



COUNTERSINK BITS ARE USED TO WIDEN SCREW HOLES SO THAT THE HEADS OF FLAT-HEAD SCREWS MAY BE FLUSH, OR SLIGHTLY BELOW, THE SURFACE OF THE WORK.



FORSTNER BITS ARE USED TO BORE HOLES PARTWAY THROUGH WHERE THE AUGER BIT SCREW OR SPUR WOULD GO THROUGH THE WORK, ALSO ON END GRAIN, THIN WOOD, OR NEAR AN END WHERE AN AUGER BIT WOULD SPLIT THE WORK. TO CENTER OR START A FORSTNER BIT, SCRIBE A CIRCLE THE SIZE OF THE HOLE WITH DIVIDERS AND PRESS THE RIM OF THE FORSTNER BIT INTO IT.

FORSTNER BITS ARE SIZED BY 16THS OF AN INCH FROM NO. 4-1/4" AND LARGER.

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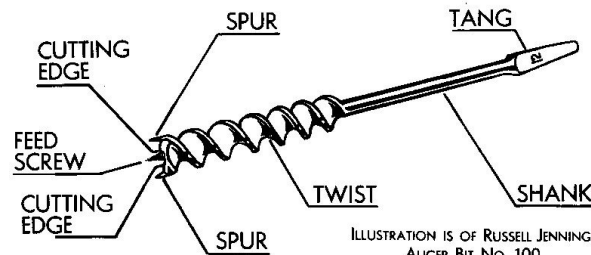


ILLUSTRATION IS OF RUSSELL JENNINGS AUGER BIT NO. 100.

AUGER BITS ARE SIZED BY 16THS OF AN INCH, MEASURING THE DIAMETER. BITS VARY IN LENGTH FROM 7" TO 10". DOWEL BITS ARE SHORT AUGER BITS ABOUT 5" LONG.



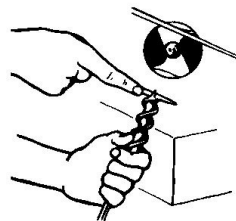
THE STANDARD DOUBLE THREAD FEED SCREW IS BEST FOR GENERAL WORK WITH SEASONED WOOD. IT IS PREFERRED FOR CABINET AND PATTERN MAKING.



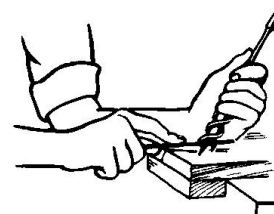
THE SINGLE THREAD FEED SCREW IS BEST FOR FAST CUTTING IN GREEN OR GUMMY WOOD.



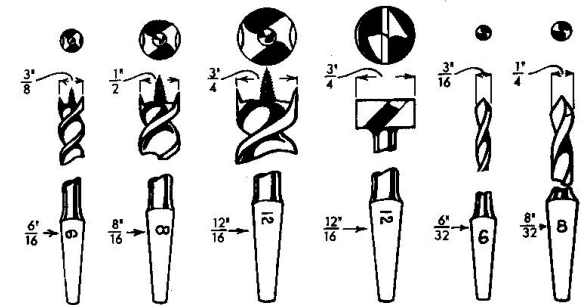
THE DIAMOND POINT IS USED FOR MACHINE BORING WITH POWER FEED.



SHARPEN AUGER BITS WITH A BIT FILE. FOR A KEEN EDGE, ALSO WHET WITH A SLIPSTONE. SHARPEN THE SPURS ON THE INSIDE TO PRESERVE THE DIAMETER.



SHARPEN THE CUTTING EDGES ON THE TOP TO MAINTAIN THE CLEARANCE ON THE UNDER SIDE. THE CUTTING EDGES MUST BE KEPT EVEN.



AUGER BITS, 16THS OF AN INCH

FORSTNER BITS 16THS.

TWIST BITS, 32NDS OF AN INCH.

BITS ARE MARKED FOR SIZE BY A SINGLE NUMBER. THE NUMERATOR OF THE FRACTION STANDS FOR THE DIAMETER OF THE BIT. AUGER AND FORSTNER BITS ARE MARKED BY 16THS OF AN INCH. NO. 8 STANDS FOR 8/16" OR 1/2". TWIST BITS FOR WOOD ARE USUALLY MARKED IN THE SAME WAY, BY 32NDS OF AN INCH. NO. 8 STANDS FOR 8/32" OR 1/4".

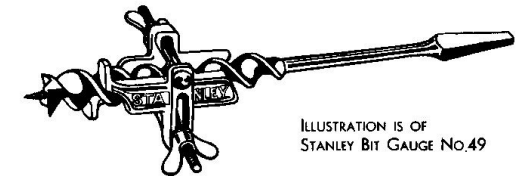


ILLUSTRATION IS OF STANLEY BIT GAUGE NO. 49

AN ADJUSTABLE BIT GAUGE MAY BE USED TO REGULATE THE DEPTH OF HOLES.



ILLUSTRATION IS OF RUSSELL JENNINGS EXPANSIVE BIT NO. 71

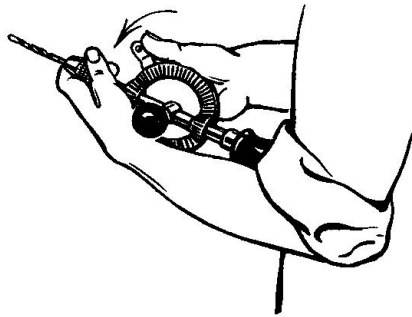
THE EXPANSIVE BIT TAKES THE PLACE OF MANY LARGE BITS. THE CUTTER MAY BE ADJUSTED FOR VARIOUS SIZED HOLES. MOVING THE CUTTER ADJUSTING SCREW ONE COMPLETE TURN ENLARGES OR REDUCES THE HOLE 1/8". ONE HALF TURN 1/16". TEST THE SIZE ON A PIECE OF WASTE WOOD. FOR BORING THROUGH, CLAMP A PIECE OF WASTE WOOD ON THE BACK OF THE WORK TO PREVENT SPLITTING.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S23

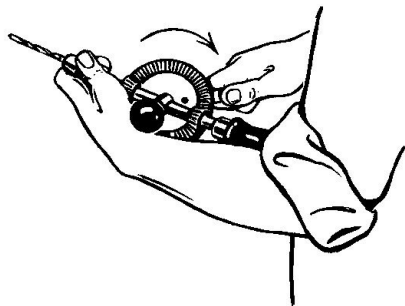
HOW TO USE THE STANLEY HAND DRILL

STANLEY

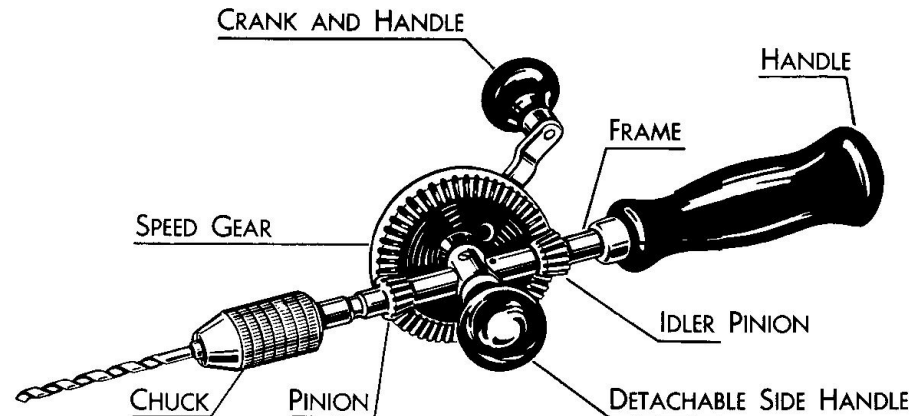
STANLEY



TO PLACE THE DRILL IN THE CHUCK, OPEN IT ONLY SLIGHTLY MORE THAN THE DIAMETER OF THE DRILL. THIS HELPS TO CENTRE IT. INSERT THE DRILL. TIGHTEN THE CHUCK BY PUSHING FORWARD ON THE CRANK WITH THE RIGHT HAND, WHILE HOLDING THE CHUCK SHELL TIGHT WITH THE LEFT THUMB AND FOREFINGER.

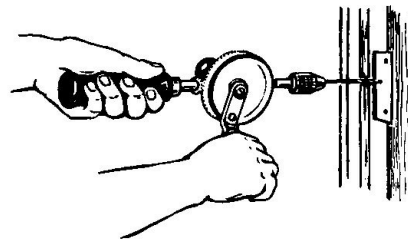


TO REMOVE THE DRILL, HOLD THE CHUCK SHELL TIGHT WITH THE LEFT THUMB AND FOREFINGER, AND TURN THE CRANK BACKWARD, WITH THE RIGHT HAND, AS SHOWN BY THE ARROW.

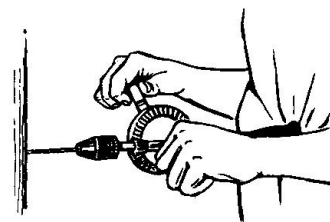


THE ILLUSTRATION IS OF STANLEY HAND DRILL NO. 617-1/4" CHUCK.

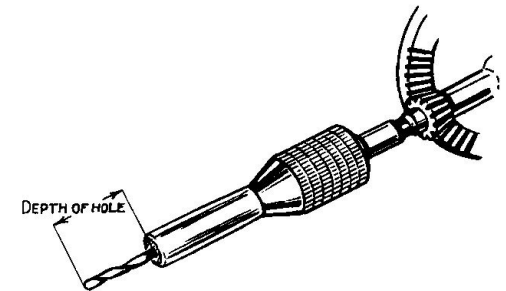
THE HAND DRILL IS USED FOR THE RAPID DRILLING OF SMALL HOLES IN BOTH WOOD AND METAL. HOLES IN WOOD SHOULD BE STARTED WITH AN AWL TO HELP CENTRE AND LOCATE THE DRILL. HOLES IN METAL SHOULD BE CENTRE PUNCHED. WHEN DRILLING THROUGH METAL, RELIEVE THE PRESSURE SLIGHTLY BEFORE BREAKING THROUGH, TO AVOID BREAKING THE DRILL. TWIST DRILLS PRINCIPALLY FOR METAL ARE MADE IN A VAST RANGE OF SIZES.



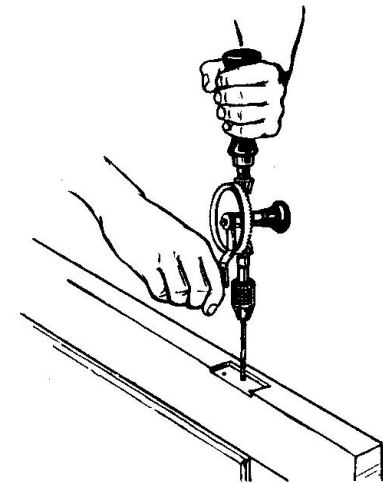
HOLD THE DRILL STRAIGHT. DO NOT WOBBLE WHILE TURNING; IT MAKES THE HOLE OVER-SIZE AND IS LIKELY TO BREAK THE DRILL.



IT IS SOMETIMES DESIRABLE TO HOLD THE DRILL BY THE SIDE HANDLE AND PRESS THE BODY AGAINST THE FRAME HANDLE LIKE A BREAST DRILL.



TO DRILL HOLES OF UNIFORM DEPTH, MAKE A DEPTH GAUGE. CUT A PIECE OF WOOD OR DOWEL THE RIGHT LENGTH, SO THE DRILL WILL PROJECT THE DESIRED DEPTH WHEN THE PIECE OF WOOD IS DRILLED AND SLIPPED OVER THE DRILL.



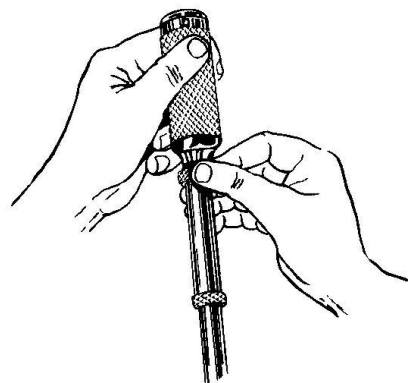
HOLD THE DRILL STEADY IN THE DIRECTION DESIRED AND EXERT AN EVEN PRESSURE. TURN THE CRANK AT A CONSTANT SPEED AND NOT TOO FAST.

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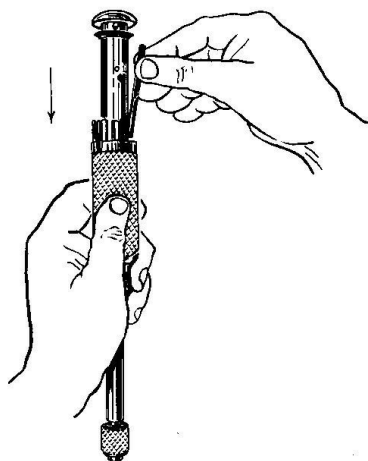
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S24

HOW TO USE THE "YANKEE" PUSH DRILL

STANLEY

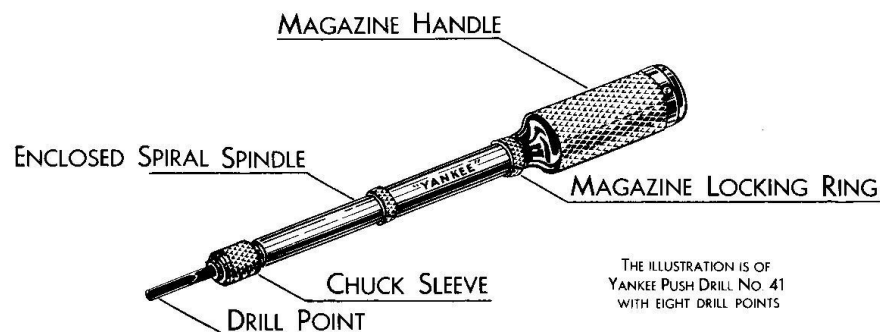


TO OPEN THE MAGAZINE HANDLE TURN THE LOCKING RING TO THE LEFT.

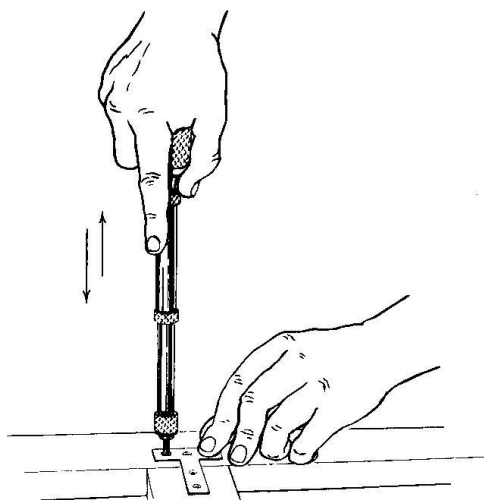


DRAW THE MAGAZINE HANDLE DOWN AND TURN IT TO SELECT THE DESIRED SIZE DRILL POINT. THE MAGAZINE CONTAINS EIGHT DRILL POINTS, 1/16" TO 11/64".

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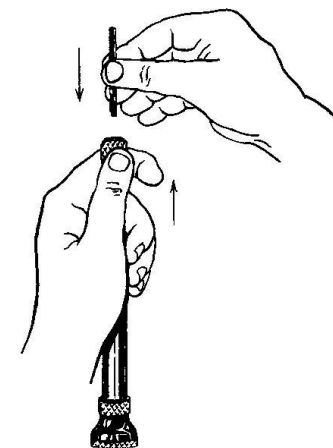
THE ILLUSTRATION IS OF
YANKEE PUSH DRILL No. 41
WITH EIGHT DRILL POINTS



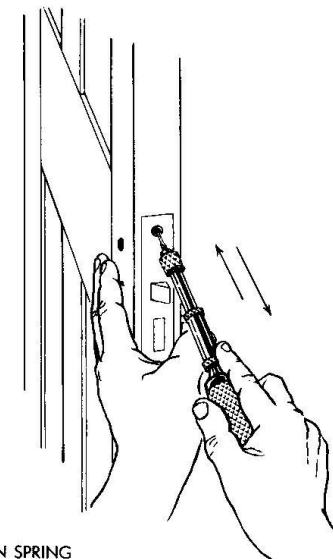
THE YANKEE PUSH DRILL IS A TOOL TO USE WITH ONE HAND, LEAVING THE OTHER ONE FREE TO HOLD THE WORK.

DRILL POINTS TO USE IN		DRILL FOR WOOD SCREWS								
NUMBER OF SCREW	0	1	2	3	4	5	6	7	8	
BODY DIAMETER OF SCREW	$\frac{1}{16}$	$\frac{5}{64}$	$\frac{3}{32}$	$\frac{3}{32}^+$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{9}{64}$	$\frac{5}{32}$	$\frac{11}{64}$	
DRILL TO USE FOR FIRST HOLE FOR THE SMOOTH SHANK OF SCREW	$\frac{1}{16}$	$\frac{5}{64}$	$\frac{3}{32}$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{9}{64}$	$\frac{5}{32}$	$\frac{11}{64}$	
DRILL TO USE FOR PILOT HOLE FOR THREADED END OF SCREW	X	X	$\frac{1}{16}$	$\frac{5}{64}$	$\frac{5}{64}$	$\frac{3}{32}$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{1}{8}$	

STANLEY



TO INSERT THE DRILL POINT INTO THE CHUCK PUSH THE CHUCK SLEEVE FORWARD. INSERT THE DRILL POINT AND TURN IT UNTIL YOU FEEL IT IS SEATED. RELEASE THE CHUCK SLEEVE.

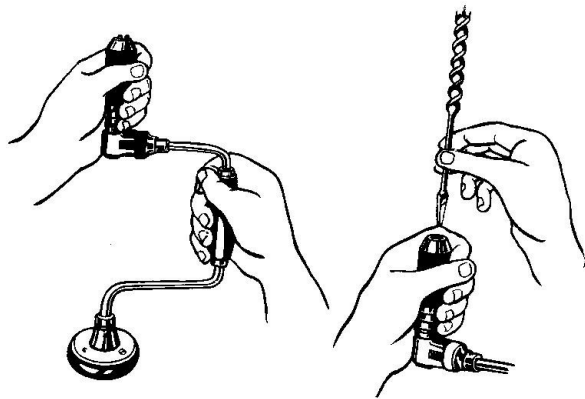


THE RETURN SPRING REVERSES THE DRILL POINT, CLEARING AWAY THE CHIPS. THE PUSH DRILL IS ESPECIALLY USEFUL IN AWKWARD OR CLOSE PLACES.

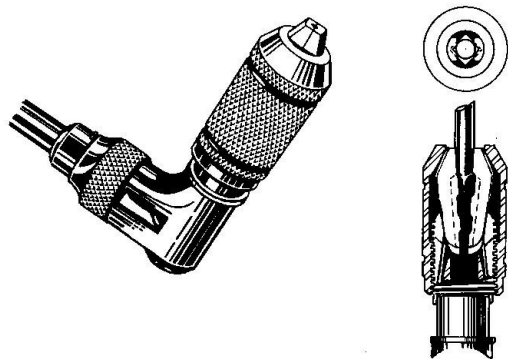
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S25

HOW TO USE THE STANLEY BIT BRACE

STANLEY

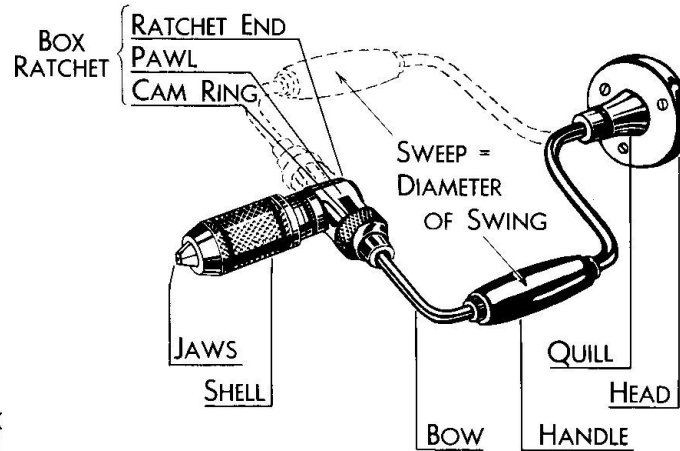


TO PLACE THE BIT IN THE CHUCK, GRASP THE CHUCK SHELL AND TURN THE HANDLE TO THE LEFT UNTIL THE JAWS ARE WIDE OPEN. INSERT THE BIT SHANK IN THE SQUARE SOCKET AT THE BOTTOM OF THE CHUCK AND TURN THE HANDLE TO THE RIGHT UNTIL THE BIT IS HELD FIRMLY IN THE JAWS.

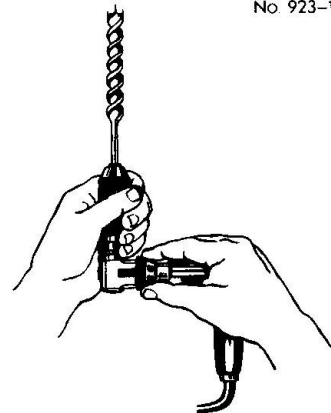


BIT BRACE CHUCKS OF THE ABOVE DESIGN, WITHOUT A SQUARE SOCKET ARE OPERATED IN LIKE MANNER. THE CORNERS OF THE TAPER SHANK OF THE BIT SHOULD BE CAREFULLY SEATED AND CENTRED IN THE V GROOVES OF THE JAWS.

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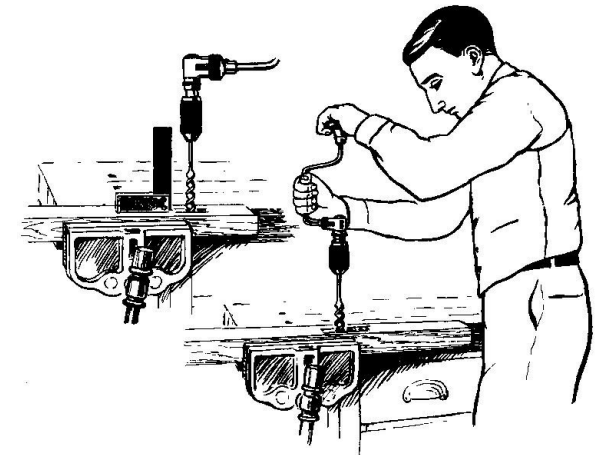


THE ILLUSTRATION IS OF
STANLEY RATCHET BIT BRACE
No. 923-10 IN. SWEEP

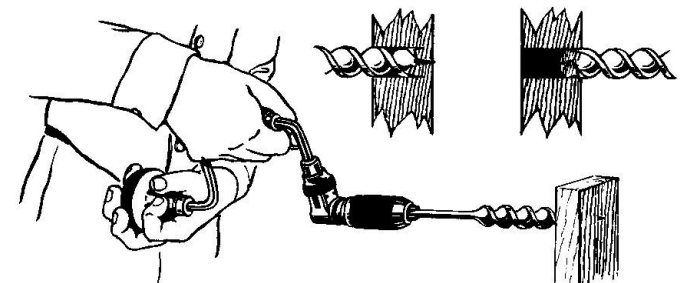


TO OPERATE THE RATCHET TURN THE CAM RING. TURNING THE CAM RING TO THE RIGHT WILL ALLOW THE BIT TO TURN RIGHT AND GIVE RATCHET ACTION WHEN THE HANDLE IS TURNED LEFT. TURN THE CAM RING LEFT TO REVERSE THE ACTION. THE RATCHET BRACE IS INDISPENSABLE WHEN BORING A HOLE IN A CORNER OR WHERE SOME OBJECT PREVENTS MAKING A FULL TURN WITH THE HANDLE.

STANLEY



TO BORE A VERTICLE HOLE, HOLD THE BRACE AND BIT PERPENDICULAR TO THE SURFACE OF THE WORK. TEST BY SIGHT. COMPARE THE DIRECTION OF THE BIT TO THE NEAREST STRAIGHT EDGE OR TO SIDES OF THE VICE. A TRY SQUARE MAY BE HELD NEAR THE BIT.

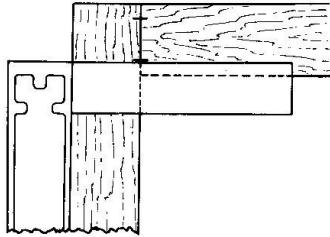


TO BORE A HORIZONTAL HOLE, HOLD THE HEAD OF THE BRACE CUPPED IN THE LEFT HAND AGAINST THE STOMACH AND WITH THE THUMB AND FOREFINGER AROUND THE QUILL. TO BORE THROUGH WITHOUT SPLINTERING THE SECOND FACE, STOP WHEN THE SCREW POINT IS THROUGH AND FINISH FROM THE SECOND FACE. WHEN BORING THROUGH WITH AN EXPANSIVE BIT IT IS BEST TO CLAMP A PIECE OF WOOD TO THE SECOND FACE AND BORE STRAIGHT THROUGH.

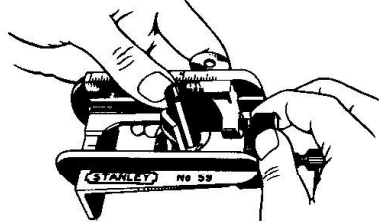
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S26

HOW TO USE THE STANLEY DOWELLING JIG

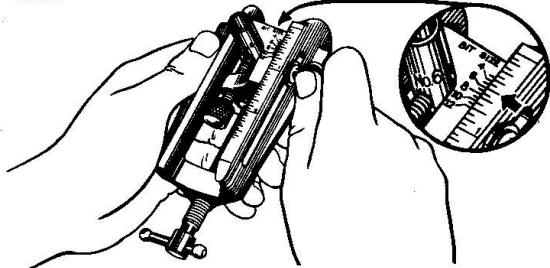
STANLEY



- 1 INDICATE ON FACE SIDE A CENTRE LINE FOR ANY NUMBER OF DOWELS DESIRED.

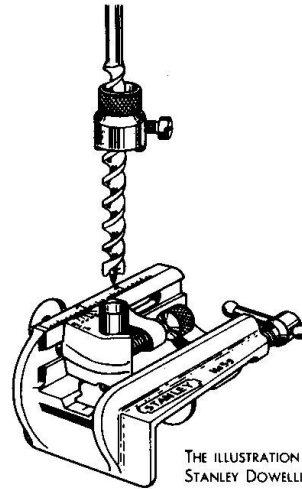


- 2 SELECT A SUITABLE SIZE DOWEL FOR YOUR WOOD AND THE SAME SIZE GUIDE. SECURE THE GUIDE, BEVEL END UP, IN SLIDE WITH BOTTOM OF GUIDE PRACTICALLY FLUSH WITH UNDER SIDE OF THE SLIDE.



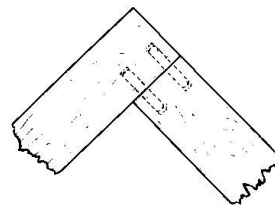
- 3 ADJUST THE SLIDE, ALIGNING THE INDEX LINE FOR THE GUIDE SELECTED AT THE PROPER GRADUATION TO BRING THE CENTRE OF THE HOLE THE DISTANCE DESIRED FROM THE FACE SIDE OF THE WOOD. AN INDEX LINE IS GIVEN ON THE SLIDE FOR EACH GUIDE OR BIT SIZE.

EXAMPLE: FOR A 3/8" GUIDE ADJUST THE SLIDE TO BRING THE INDEX LINE NO. 6 TO THE DESIRED GRADUATION MARK. IF THE DOWEL IS TO BE IN THE CENTRE OF A 1" PIECE OF WOOD, ADJUST THE SLIDE TO THE 1/2" GRADUATION MARK AND FASTEN SECURELY WITH THE THUMB SCREW.

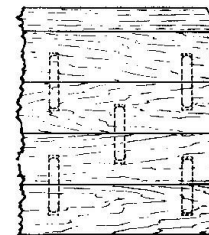


THE ILLUSTRATION IS OF
STANLEY DOWELLING JIG NO. 59

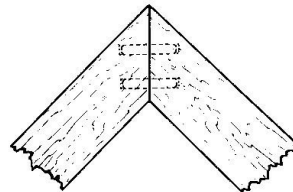
GUIDE SIZE	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
BIT SIZE	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8



DOWELLED CORNER JOINT



DOWELLED SIDE GRAIN JOINT

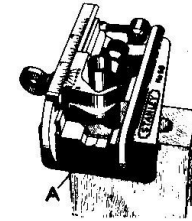


DOWELLED MITRE JOINT

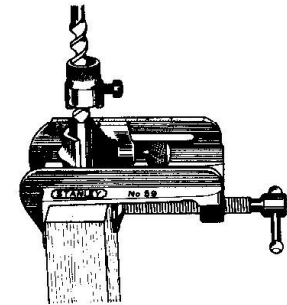


MORTISING

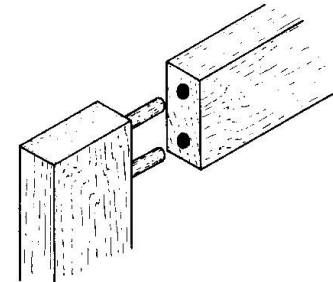
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- 4 PLACE THE JIG ON ONE OF THE PIECES OF WOOD WITH THE FENCE NEXT TO THE FACE SIDE OF THE WOOD AND BRING THE CENTRE LINE (A) IN ALIGNMENT WITH THE MARK ON THE WOOD, ILLUSTRATED IN NO. 1. CLAMP THE JIG SECURELY.



- 5 PLACE THE BIT OF THE PROPER SIZE INTO THE GUIDE USING CARE NOT TO STRIKE THE CUTTING EDGE OF THE BIT AGAINST THE GUIDE. BORE FOR EACH HOLE TO THE DESIRED DEPTH USING A DEPTH GAUGE CLAMPED ON THE BIT AS SHOWN.



- 6 PLACE DOWELS IN THE HOLES AND COMPLETE THE JOINT

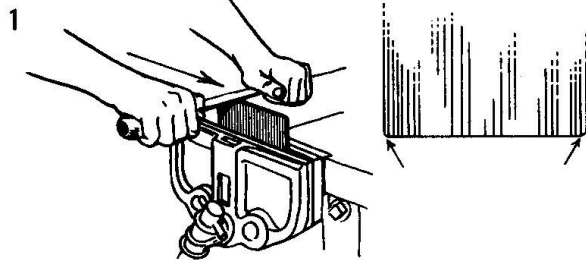
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WALL CHART NO. S27

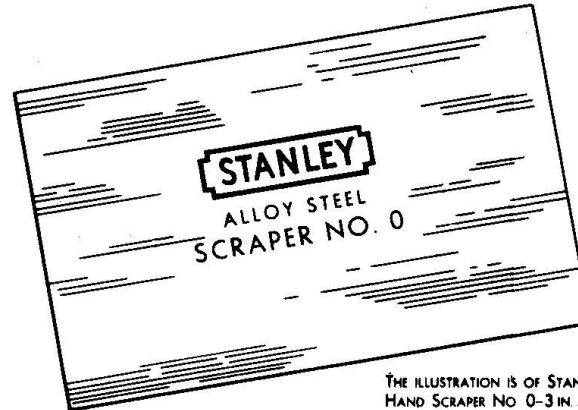
HOW TO SHARPEN AND USE THE STANLEY HAND SCRAPER

STANLEY

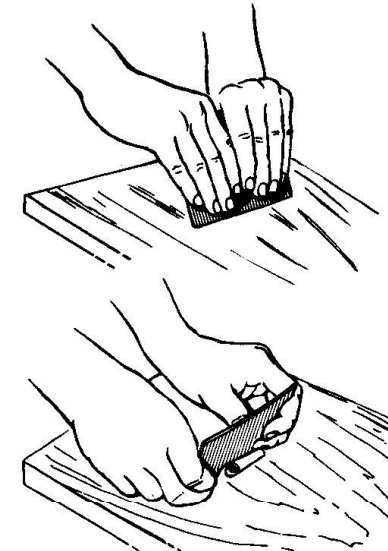
STANLEY



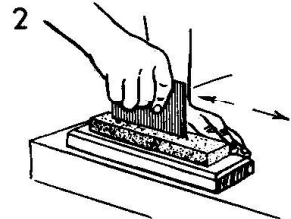
TO SHARPEN THE HAND SCRAPER: FILE THE EDGES SQUARE AND STRAIGHT BY DRAWFILING WITH A SMOOTH MILL FILE. ROUND THE CORNERS SLIGHTLY, AS SHOWN ABOVE.



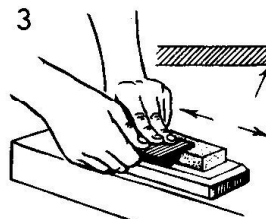
THE ILLUSTRATION IS OF STANLEY HAND SCRAPER NO. 0-3 IN. x 5 IN.



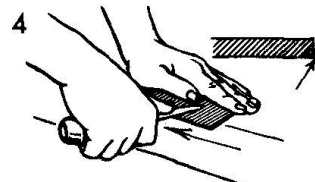
THE HAND SCRAPER CAN BE EITHER PUSHED OR PULLED AS THE GRAIN OF THE WOOD DEMANDS OR WHICH EVER IS MORE CONVENIENT.



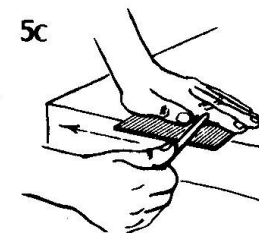
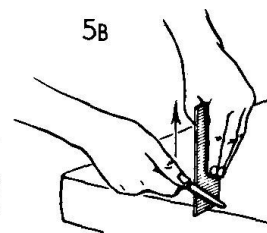
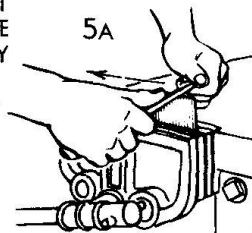
WHET THE EDGE, HOLDING THE BLADE SQUARE TO THE SURFACE OF THE OIL STONE. SOME PREFER TO HOLD THE SCRAPER SQUARE TO THE EDGE OF THE OIL STONE.



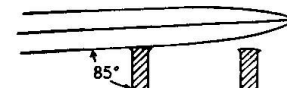
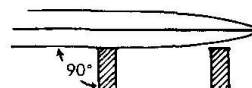
REMOVE THE BURR BY WHETTING THE SCRAPER FLAT ON THE OIL STONE. THE EDGES SHOULD BE VERY SMOOTH AND SHARP.



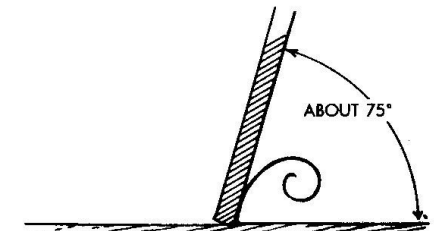
DRAW THE EDGE WITH THREE OR FOUR FIRM STROKES OF THE BURNISHER HELD FLAT ON THE SCRAPER.



TURN THE EDGE WITH A FEW STROKES OF THE BURNISHER. THE SCRAPER CAN BE HELD IN ANY OF THE THREE WAYS SHOWN ABOVE. DRAW THE BURNISHER TOWARD YOU THE FULL LENGTH OF THE BLADE WITH A SLIDING STROKE.



TO TURN THE EDGES OUT, THE BURNISHER IS HELD AT 90° TO THE FACE OF THE BLADE FOR THE FIRST STROKE. FOR EACH OF THE FOLLOWING STROKES, TILT THE BURNISHER SLIGHTLY UNTIL AT THE LAST STROKE IT IS HELD AT ABOUT 85° TO THE FACE OF THE BLADE. A DROP OF OIL ON THE BURNISHER HELPS.



THE HAND SCRAPER IS HELD FIRMLY BETWEEN THE THUMB AND FINGERS AT AN ANGLE OF ABOUT 75° AND SPRUNG TO A SLIGHT CURVE BY PRESSURE OF THE THUMBS. DUST, INSTEAD OF A SHAVING, INDICATES A DULL SCRAPER.

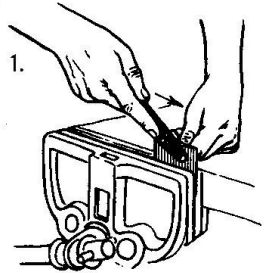
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STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S28

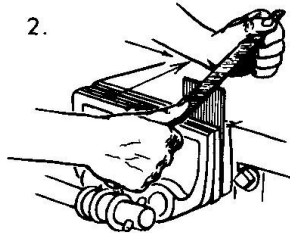
HOW TO SHARPEN AND USE THE STANLEY CABINET SCRAPER

STANLEY

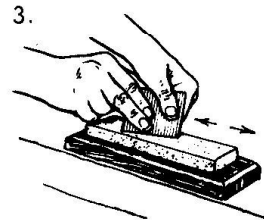
STANLEY



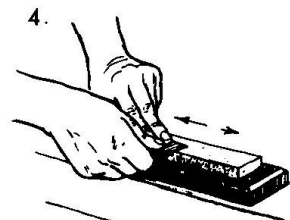
1. TO SHARPEN A BEVEL EDGE SCRAPER BLADE. REMOVE THE OLD BURR WITH A SMOOTH MILL FILE HELD FLAT AGAINST THE FACE OR FLAT SIDE OF THE BLADE.



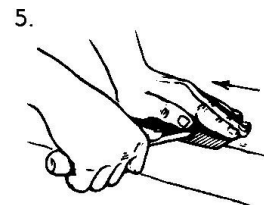
2. FILE OR GRIND A BEVEL OF ABOUT 45°. PUSH THE FILE FORWARD AND TO THE SIDE WITH ONE SLIDING MOTION.



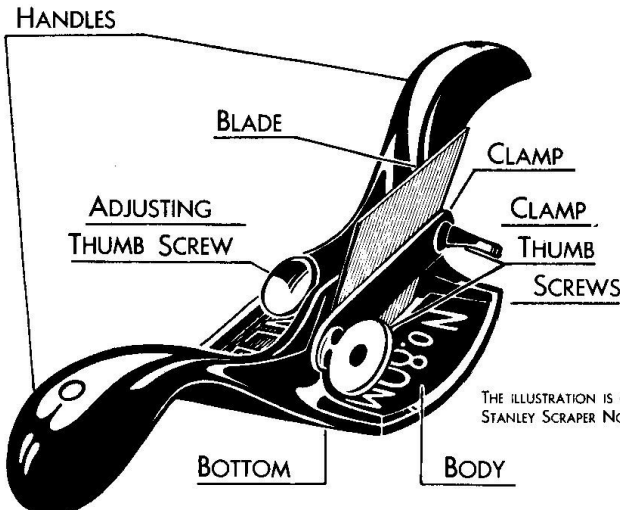
3. WHET THE BEVEL SIDE OF THE BLADE ON THE OIL STONE.



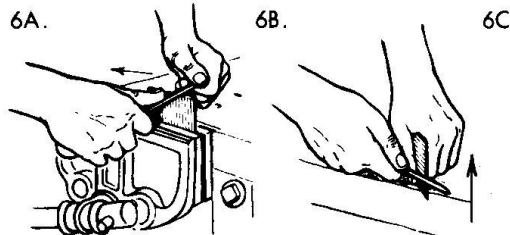
4. WHET THE FACE SIDE OF THE BLADE TO REMOVE THE WIRE EDGE.



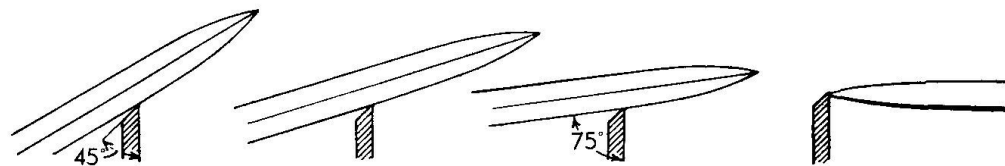
5. DRAW THE EDGE WITH A FEW FIRM STROKES ON THE FACE SIDE OF THE BLADE. HOLD THE BURNISHER FLAT ON THE FACE SIDE OF THE BLADE.



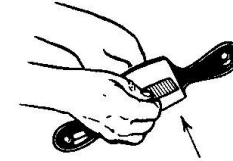
THE CABINET SCRAPER IS USED FOR THE FINAL SMOOTHING BEFORE SANDPAPERING. IT REMOVES THE SLIGHT RIDGES LEFT BY THE PLANE. IT IS ALSO USED TO SMOOTH SURFACES THAT ARE DIFFICULT TO PLANE BECAUSE OF CURLY OR IRREGULAR GRAIN.



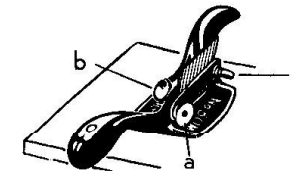
6A. 6B. 6C. TURN THE EDGE WITH A FEW FIRM STROKES OF THE BURNISHER ON THE ER CAN BE HELD IN ANY OF THE THREE WAYS SHOWN ABOVE. DRAW LENGTH OF THE BLADE WITH A SLIDING STROKE. SOME PREFER TO TOWARD THE ENDS. A DROP OF OIL ON THE BURNISHER HELPS.



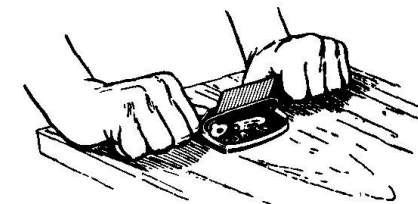
THE FIRST STROKE SHOULD BE MADE WITH THE BURNISHER HELD AT AN ANGLE, A LITTLE GREATER THAN THE BEVEL. INCREASE THE ANGLE UNTIL, AT THE LAST STROKE, THE BURNISHER IS HELD AT ABOUT 75° TO THE FLAT FACE OF THE BLADE. IF THE EDGE SHOULD BE TURNED TOO FAR OVER, IT CAN BE RAISED BY DRAWING THE POINT OF THE BURNISHER ALONG THE EDGE UNDER THE BURR.



TO ADJUST AND USE THE CABINET SCRAPER: LOOSEN THE ADJUSTING THUMB SCREW AND THE CLAMP THUMB SCREWS. INSERT THE BLADE FROM THE BOTTOM WITH THE BEVEL SIDE TOWARDS THE ADJUSTING THUMB SCREW.



BRING THE EDGE OF THE BLADE EVEN WITH THE BOTTOM OF THE SCRAPER BODY BY STANDING IT ON A FLAT SURFACE AND PRESSING THE BLADE LIGHTLY AGAINST THE WOOD. TIGHTEN THE CLAMP THUMB SCREWS a. a. BOW THE BLADE BY TIGHTENING THE ADJUSTING THUMB SCREW b TO MAKE IT PROJECT ENOUGH TO TAKE A THIN SHAVING. IF ONE CORNER OF THE BLADE PROJECTS TOO FAR, IT CAN BE DRAWN



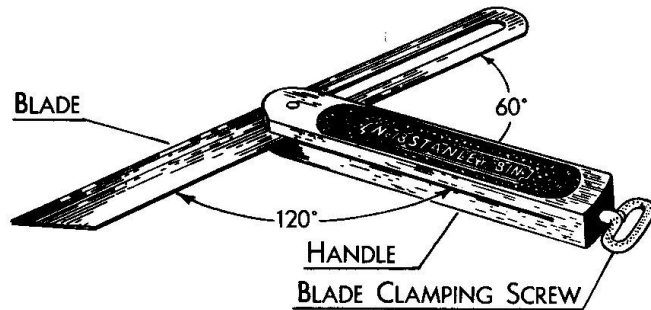
TRY THE SCRAPER AND CHANGE THE ADJUSTMENT UNTIL IT TAKES A THIN EVEN SHAVING. HOLD IT TURNED A LITTLE TO THE SIDE TO START A CUT. THE CABINET SCRAPER IS USUALLY PUSHED BUT IT CAN BE PULLED. DUST, INSTEAD OF A SHAVING, INDICATES A DULL SCRAPER.

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STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S29

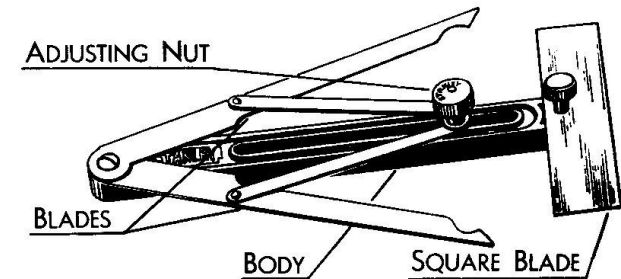
HOW TO USE THE STANLEY T BEVEL AND THE STANLEY ANGLE DIVIDER

STANLEY

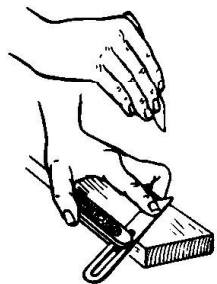


THE ILLUSTRATION IS OF STANLEY T BEVEL No. 18-8 IN

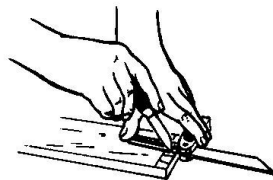
STANLEY



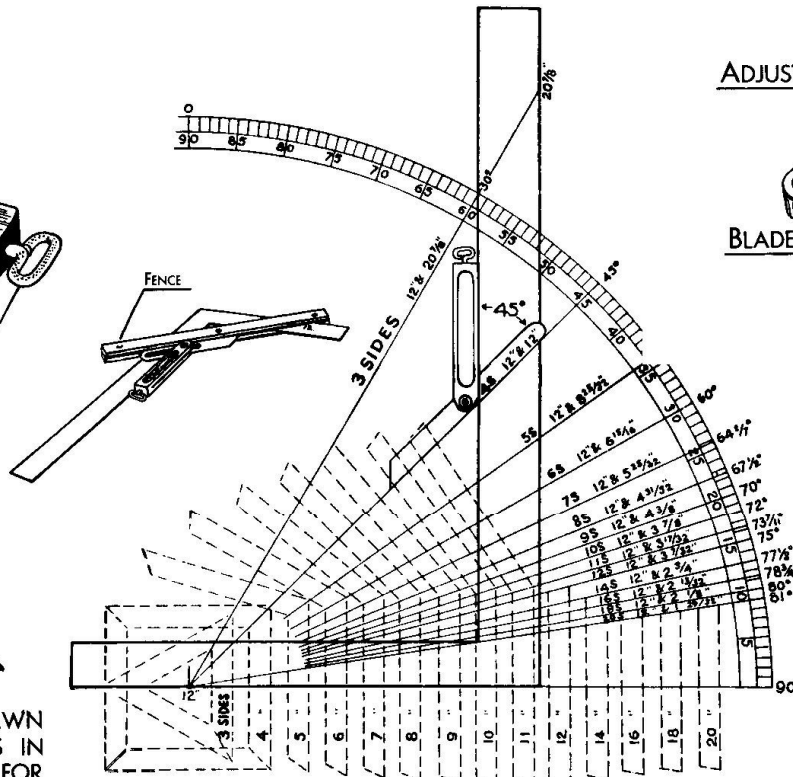
THE ILLUSTRATION IS OF STANLEY ANGLE DIVIDER No. 30



LAYING OFF A MITRE WITH A BEVEL.



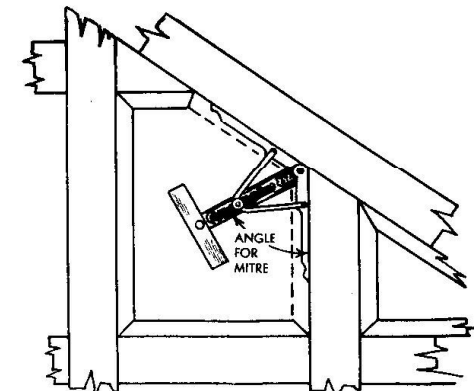
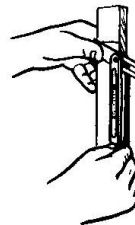
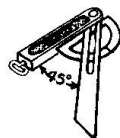
DUPLICATING LINES DRAWN AT THE SAME ANGLE AS LAYING OFF DOVETAILS FOR A DRAWER.



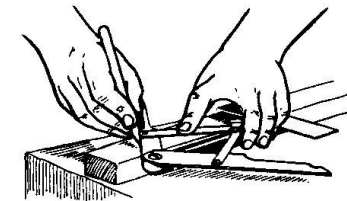
POLYGONS AND THEIR MITRES

SET THE BEVEL FOR THESE ANGLES WITH THE STEEL SQUARE. A FENCE OF TWO STRIPS OF WOOD SHOWN ABOVE, WILL HELP TO OBTAIN A PROPER SETTING.

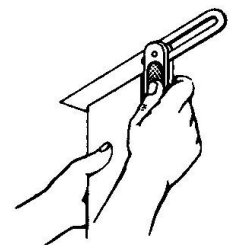
THE BEVEL MAY ALSO BE SET BY A PROTRACTOR, SHOWN AT THE LEFT, OR BY A LINE DRAWN AT A DESIRED ANGLE TO THE EDGE OF A PIECE OF WOOD, SHOWN AT THE RIGHT. THE LINE MAY BE LAID OFF BY A PROTRACTOR, BY MEASUREMENT OR BY GEOMETRIC CONSTRUCTION. THE BLADE MAY EXTEND ON ONE SIDE ONLY FOR TESTING IN-SIDE CORNERS.



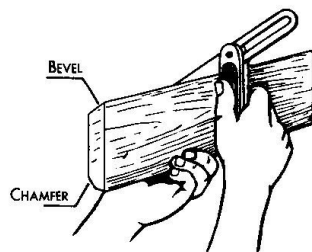
THE STANLEY ANGLE DIVIDER IS A DOUBLE BEVEL. IT IS USED TO TAKE OFF AND DIVIDE ANGLES FOR THE MITRE CUT IN ONE OPERATION. THE HANDLE IS GRADUATED ON THE BACK FOR LAYING OFF 4, 5, 6, 8 AND 10 SIDED WORK.



LAYING OFF A MITRE WITH A STANLEY ANGLE DIVIDER. THE SQUARE BLADE MAY BE USED FOR A TRY SQUARE. STANLEY TOOLS EDUCATIONAL DEPARTMENT WALL CHART NO. S30



TESTING MITRED ENDS WITH THE BEVEL.

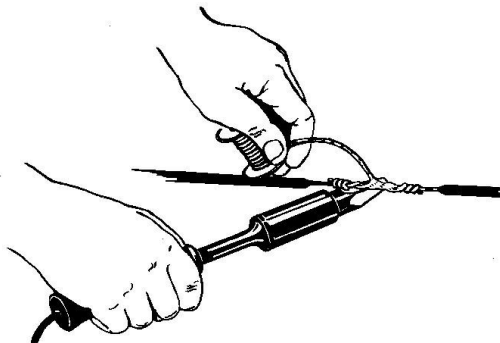


TESTING BEVELLED OR CHAMFERED EDGES WITH THE BEVEL.

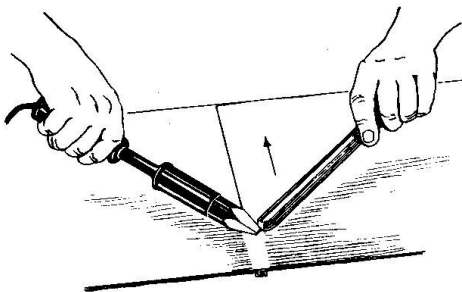
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HOW TO USE THE STANLEY SOLDERING IRON

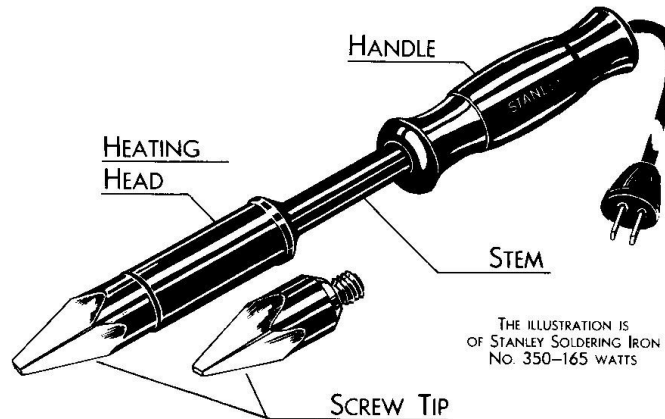
STANLEY



TWIST CLEANED OR TINNED WIRES TOGETHER. APPLY FLUX AND HOLD SURFACE OF TIP AGAINST TWISTED WIRES. APPLY SOLDER TO HEATED WORK FROM ABOVE IF POSSIBLE.



TO RUN A SEAM OR RIVETED LAP JOINT APPLY FLUX. HEAT THE WORK WITH THE IRON AND APPLY SOLDER DIRECTLY TO THE WORK OR UNDER THE IRON. START AT THE POINT FARTHEST AWAY AND DRAW THE IRON TOWARD YOU FEEDING SOLDER AS YOU GO. THE FLUX AND HEAT WILL DRAW THE SOLDER INTO THE JOINT.



THE ILLUSTRATION IS
OF STANLEY SOLDERING IRON
NO. 350-165 WATTS

TO SOLDER IS TO JOIN METAL PARTS BY HEATING TO PRODUCE A SURFACE FUSION BETWEEN THE METALS.

ESSENTIALS FOR SOLDERING

1. CLEAN METAL SURFACES
2. THE RIGHT FLUX
3. GOOD QUALITY SOLDER
4. SUFFICIENT HEAT

SOLDERING INFORMATION

SELECT AN IRON LARGE ENOUGH TO HEAT THE WORK SUFFICIENTLY TO FLOW THE SOLDER.

KEEP THE SOLDERING TIP WELL TINNED, MEANING COATED WITH SOLDER. SELECT A FLUX SUITABLE FOR THE WORK.

HAVE GOOD MECHANICAL JOINTS, PREFERABLY WITH AN OVERLAP.

CLEAN WORK THOROUGHLY, FREE FROM DIRT, GREASE OR OXIDE WITH A FILE, SCRAPER OR EMERY CLOTH.

ADJOINING SURFACES SHOULD BE TINNED, MEANING COATED WITH SOLDER, WHENEVER POSSIBLE. TO TIN SURFACES APPLY FLUX, HEAT WITH IRON UNTIL HOT ENOUGH TO FLOW A THIN COATING OF SOLDER ON THEM. HOLD PARTS FIRMLY TOGETHER WITH A STICK, TANG OF A FILE, CLAMP OR JIG. WORK MUST NOT MOVE AS SOLDER COOLS.

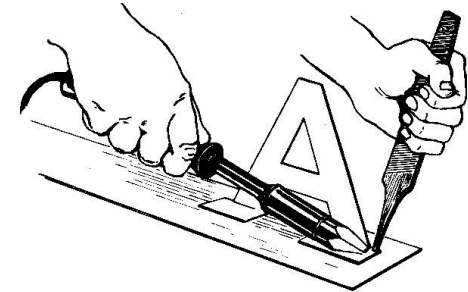
APPLY SOLDER TO THE WORK. DO NOT BUILD UP UNNECESSARY THICKNESS OF SOLDER.

SOLDER FOLLOWS THE FLUX. WORK MAY BE CONTROLLED BY APPLYING LACQUER OR SHELLAC WHERE NO SOLDER IS DESIRED.

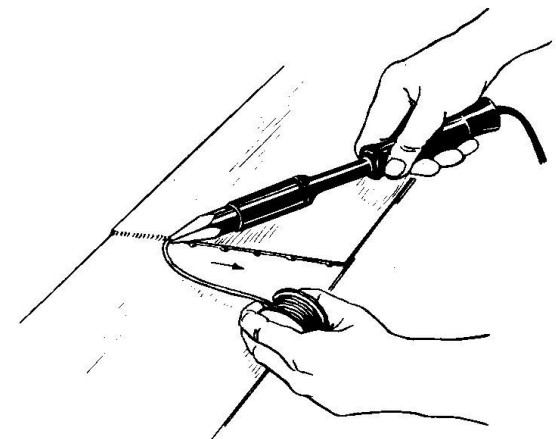
IF ACID FLUX IS USED THE WORK SHOULD BE WASHED OFF WITH SODA AND WATER TO PREVENT CORROSION.

USE ONLY ROSIN FLUX ON ELECTRICAL WORK TO AVOID CORROSION.

STANLEY



THE ILLUSTRATION SHOWS SWEAT SOLDERING OF TWO WELL CLEANED, TINNED AND FLUXED SURFACES. HEAT THE WORK WITH THE BROADEST SURFACE OF THE SOLDERING TIP WHENEVER POSSIBLE. POINT CONTACT PERMITS LITTLE FLOW OF HEAT. HOLD WORK FAST WITH A STICK, TANG OF A FILE OR CLAMP UNTIL THE SOLDER SETS.



CLEAN, TIN AND APPLY FLUX. TACK WORK WITH DROPS OF SOLDER TO HOLD IT TOGETHER. APPLY SOLDER DIRECTLY TO THE WORK, PARTICULARLY IF CORE SOLDER IS USED BECAUSE THE FLUX MAY EVAPORATE AND LOSE ITS STRENGTH BEFORE IT DOES ITS WORK.

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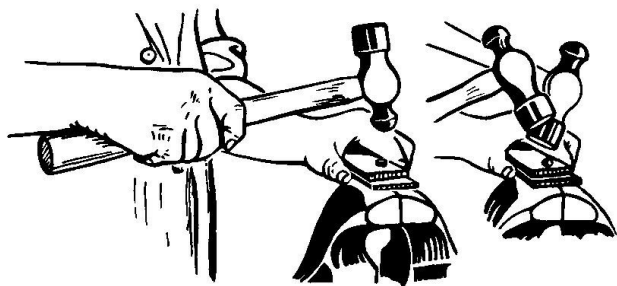
STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S32

HOW TO USE THE STANLEY BALL PEIN HAMMER

STANLEY

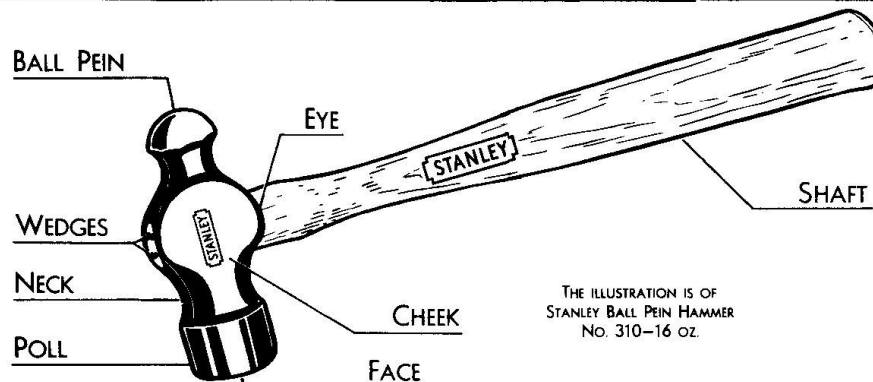


THE BALL PEIN HAMMER IS THE MECHANIC'S ALL AROUND HAMMER.
FOR CHIPPING, USE A BALL PEIN HAMMER, 1 TO 2 LBS. IN WEIGHT, ACCORDING TO THE WORKMAN'S PREFERENCE.



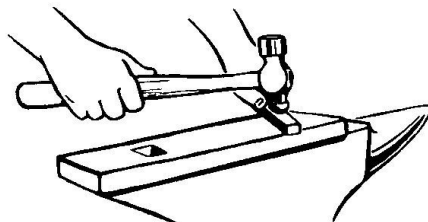
TO RIVET WITH A BALL PEIN HAMMER, SUPPORT THE RIVET ON SOMETHING HARD, A STAKE OR A DOLLY ETC., DRAW THE PARTS TOGETHER WITH A RIVET SET OR WITH A DRIFT, STRIKE STRAIGHT DOWN ON THE RIVET WITH THE BALL PEIN, HEAD THE RIVET OVER WITH THE BALL PEIN OR WITH THE FACE OF THE HAMMER.

STANLEY WORKS (G.B.) LTD.
SHEFFIELD, ENGLAND.



THE ILLUSTRATION IS OF
STANLEY BALL PEIN HAMMER
NO. 310-16 OZ.

TO STRIKE HEAVY AND MEDIUM BLOWS, GRASP THE HAMMER FIRMLY NEAR THE END OF THE HANDLE AND SWING IT WITH A FREE GRACEFUL SWEEP, WELL OVER THE SHOULDER.
TO STRIKE LIGHT BLOWS, AS IN DRIVING RIVETS, GRASP THE HANDLE NEARER THE HEAD AND SWING WITH A MOTION SLIGHTLY AT THE ELBOW BUT CHIEFLY AT THE WRIST.



TO CHANGE A CENTRE PUNCH MARK, HAMMER OUT THE OLD MARK WITH THE BALL PEIN.

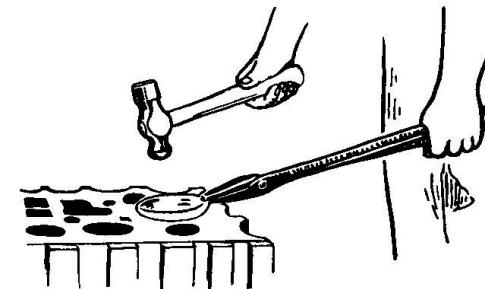
TO AVOID ACCIDENTS

INSPECT THE HAMMER EVERY TIME IT IS CHECKED OUT OF THE TOOL ROOM. BE SURE THE HEAD IS FIRMLY ATTACHED AND THE WEDGES DRIVEN TIGHTLY IN PLACE.
AVOID STRIKING THE SHAFT TO SAVE IT FROM BREAKAGE.
AVOID CHIPPING THE EDGES OF THE HAMMER FACE, WHEN STRIKING HARD METALS.
AVOID STRIKING WITH THE CHEEK OF THE HAMMER, AS IT IS THE WEAKEST PART.

STANLEY



THE BALL PEIN HAMMER, WEIGHING ABOUT 1½ TO 2 LBS., IS A GOOD GENERAL PURPOSE LIGHT WEIGHT HAND HAMMER FOR FORGE WORK. NOTICE THE BLACKSMITH EXTENDS HIS THUMB ALONG THE BACK OF THE SHAFT.



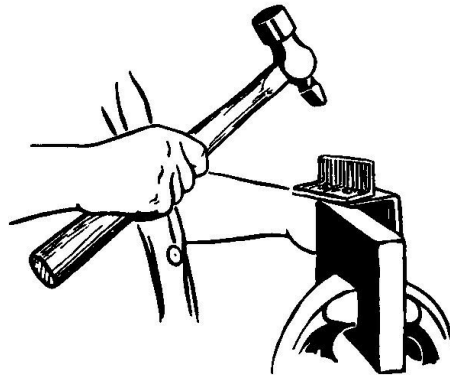
TO RAISE A BOWL SHAPED FORM, SUCH AS THE BOWL OF A SOLDER LADLE, HOLD THE WORK OVER A SWAGE BLOCK OR SUITABLE FORM OR STAKE AND BEAT IT OUT WITH THE BALL PEIN.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S33

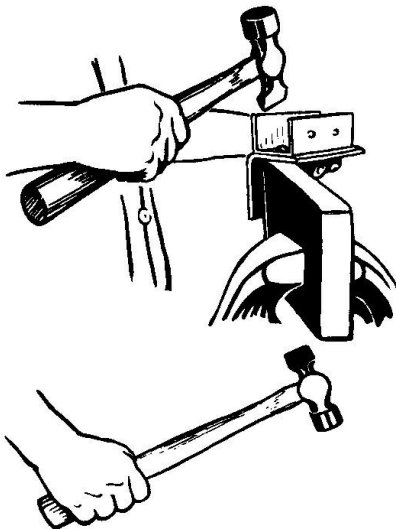
HOW TO USE THE STANLEY HAMMERS

STRAIGHT AND CROSS PEIN

STANLEY

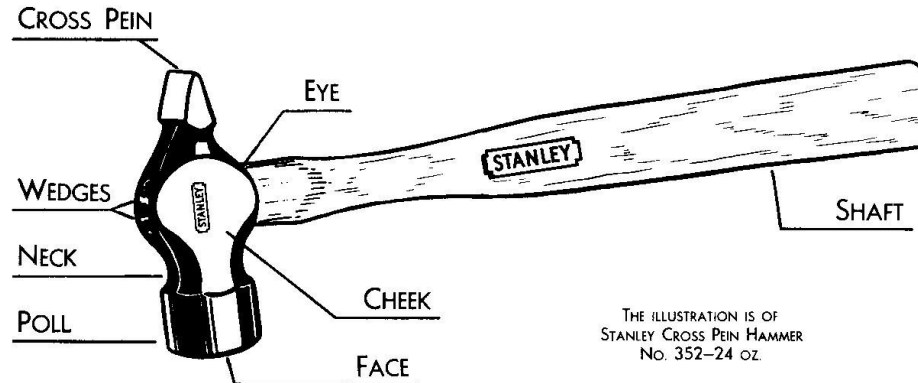


FOR MANY JOBS OF SWAGING, RIVETING, STRETCHING OR BENDING A BALL PEIN HAMMER IS NOT SUITABLE. USE A CROSS PEIN OR A STRAIGHT PEIN HAMMER, ACCORDING TO THE WORK.



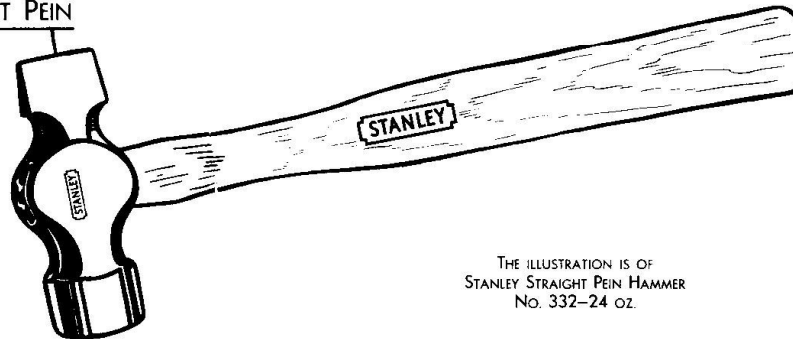
THE MACHINIST USUALLY HOLDS HIS THUMB AROUND THE HAMMER SHAFT.

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THE ILLUSTRATION IS OF
STANLEY CROSS PEIN HAMMER
No. 352-24 oz.

STRAIGHT PEIN



THE ILLUSTRATION IS OF
STANLEY STRAIGHT PEIN HAMMER
No. 332-24 oz.

TO STRIKE HEAVY AND MEDIUM BLOWS, GRASP THE HAMMER FIRMLY NEAR THE END OF THE SHAFT AND SWING IT WITH A FREE GRACEFUL SWEEP, WELL OVER THE SHOULDER.

TO STRIKE LIGHT BLOWS, AS IN DRIVING RIVETS, GRASP THE SHAFT NEARER THE HEAD AND SWING IT WITH A SLIGHT MOTION AT THE ELBOW BUT CHIEFLY AT THE WRIST.

TO AVOID ACCIDENTS

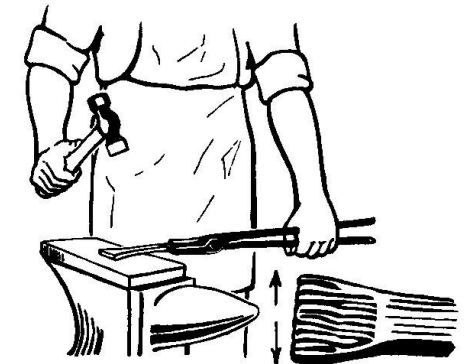
INSPECT THE HAMMER EVERY TIME IT IS CHECKED OUT OF THE TOOL ROOM. BE SURE THE HEAD IS FIRMLY ATTACHED AND THE WEDGES DRIVEN TIGHTLY IN PLACE.

AVOID STRIKING THE SHAFT TO SAVE IT FROM BREAKAGE.

AVOID CHIPPING THE EDGES OF THE HAMMER FACE WHEN STRIKING HARD METALS.

AVOID STRIKING WITH THE CHEEK OF THE HAMMER AS IT IS THE WEAKEST PART.

STANLEY



TO STRETCH A PIECE OF STOCK IN THE DIRECTION OF ITS WIDTH, USE A CROSS PEIN HAMMER.

TO STRETCH A PIECE OF STOCK IN THE DIRECTION OF ITS LENGTH, USE A STRAIGHT PEIN HAMMER.



THE BLACKSMITH USUALLY HOLDS HIS THUMB ALONG THE BACK OF THE HAMMER SHAFT.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S34

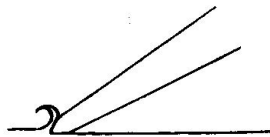
HOW TO USE THE STANLEY FLAT COLD CHISEL

STANLEY



TO CHIP A BROAD SURFACE, THAT IS, TO REMOVE THE SURPLUS MATERIAL PREPARATORY TO SMOOTHING WITH A FILE, USE A CAPE AND A FLAT CHISEL. CHIP GROOVES ACROSS THE SURFACE OF THE WORK WITH A CAPE CHISEL (SEE STANLEY CHART NO. S36.) THEN CHIP AWAY THE MATERIAL BETWEEN THE GROOVES WITH A FLAT CHISEL. HOLD THE WORK IN THE VICE AT ABOUT ELBOW HEIGHT. GRASP THE CHISEL FIRMLY ENOUGH TO GUIDE IT, BUT LOOSELY ENOUGH TO EASE THE SHOCK OF THE HAMMER BLOWS IMPARTED TO THE HAND THROUGH THE CHISEL.

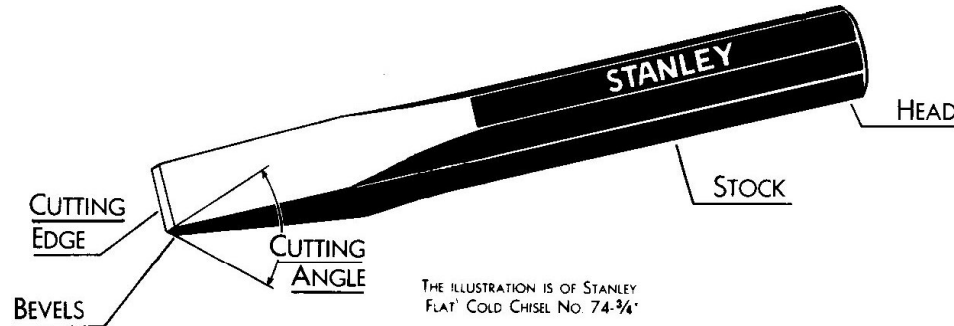
HOLD THE CHISEL AT AN ANGLE THAT WILL BRING THE LOWER BEVEL PARALLEL TO THE SURFACE OF THE WORK.



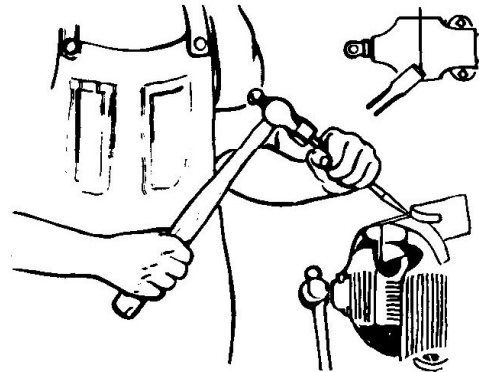
GRASP THE HAMMER NEAR THE END OF THE SHAFT AND SWING IT WELL OVER THE SHOULDER IN A FREE GRACEFUL SWEEP. IT IS NOT NECESSARY TO LUBRICATE THE CHISEL WHEN CHIPPING CAST IRON. WHEN CHIPPING WROUGHT IRON OR STEEL, LUBRICATE THE CHISEL EVERY FEW BLOWS BY TOUCHING THE EDGE TO A PIECE OF OIL SOAKED WASTE.

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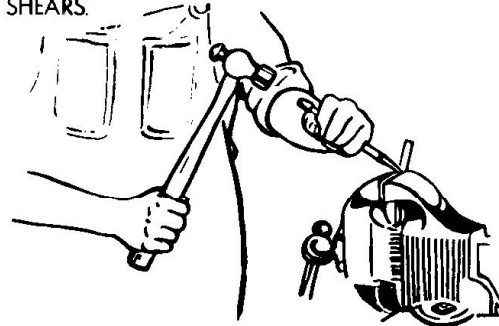
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THE ILLUSTRATION IS OF STANLEY FLAT COLD CHISEL NO. 74-3/4"



TO SHEAR IN A VICE, HOLD THE CHISEL SO THAT WHEN STRUCK WITH THE HAMMER THE CHISEL AND THE STATIONARY JAW OF THE VICE ACT LIKE A PAIR OF SHEARS.

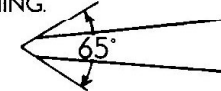


TO CUT ROD OR SMALL BAR STOCK TO ROUGH SIZE, NICK IT ON OPPOSITE SIDES AND BEND IT UNTIL IT BREAKS.

STANLEY



TO CUT OUT A HOLE, USE A NARROW CHISEL SO THE SHAPE OF THE CUT WILL CONFORM CLOSELY TO THE LINE, REDUCING THE AMOUNT OF FILING NECESSARY FOR FINISHING.



COLD CHISELS ARE GROUND OR FILED WITH A BEVEL ON BOTH SIDES, FORMING A CUTTING ANGLE OF ABOUT 65° FOR AVERAGE WORK. COLD CHISELS ARE USUALLY MADE OF CARBON TOOL STEEL. CHISEL NO. 74 IS MADE OF SILICON MANGANESE ALLOY STEEL, TOUGH ENOUGH TO GIVE HARD LASTING USE, BUT SOFT ENOUGH TO FILE SHARP, THUS AVOIDING THE DANGER OF BURNING THE EDGE WHEN GRINDING.

TO AVOID ACCIDENTS

KEEP THE HEAD OF THE CHISEL AND THE FACE OF THE HAMMER CLEAN AND FREE FROM OIL. LET THE GRIP OF THE THUMB AND FOREFINGER BE LOOSE ENOUGH TO GIVE, IF THE HAMMER SHOULD SLIP AND HIT THEM.

IN USE, THE HEAD OF THE CHISEL BECOMES TURNED OVER OR BURRED. KEEP THE BURR GROUND AWAY TO PREVENT INJURY TO THE HANDS AND TO PREVENT PARTICLES OF THE BURR FROM FLYING OFF INTO YOUR EYES.

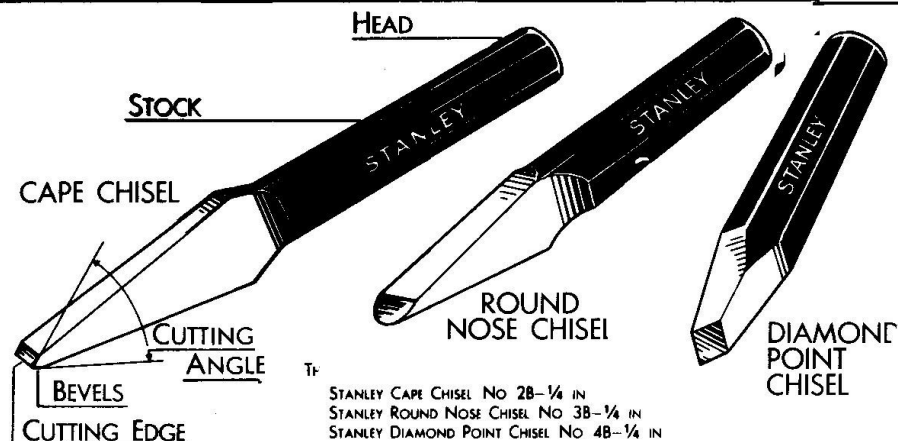
WHEN CHIPPING, USE GOGGLES TO PROTECT YOUR EYES.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S35

HOW TO USE THE STANLEY COLD CHISELS

CAPE, ROUND NOSE AND DIAMOND POINT

STANLEY



TO CHIP PARALLEL GROOVES, PREPARATORY TO CHIPPING THE SURFACE WITH A FLAT CHISEL, USE A CAPE CHISEL (SEE STANLEY CHART NO. S35.) SPACE THE GROOVES SLIGHTLY CLOSER TOGETHER THAN THE WIDTH OF THE FLAT CHISEL. CHIP THE STOCK FROM BOTH SIDES TOWARD THE CENTRE, TO AVOID FRACTURING THE METAL AT THE EDGES. HOLD THE WORK IN THE VICE AT ABOUT ELBOW HEIGHT.

GRASP THE CHISEL FIRMLY ENOUGH TO GUIDE IT, BUT LOOSELY ENOUGH TO EASE THE SHOCK OF THE HAMMER BLOWS IMPARTED TO THE HAND THROUGH THE CHISEL. HOLD THE CAPE CHISEL AT AN ANGLE THAT WILL BRING THE LOWER BEVEL PARALLEL TO THE SURFACE OF THE WORK.

GRASP THE HAMMER NEAR THE END OF THE SHAFT AND SWING IT WELL OVER THE SHOULDER, WITH A FREE GRACEFUL SWEEP. IT IS NOT NECESSARY TO LUBRICATE THE CHISEL WHEN CHIPPING CAST IRON. WHEN CHIPPING WROUGHT IRON OR STEEL, TOUCH THE CUTTING EDGE EVERY FEW BLOWS WITH A PIECE OF OILY COTTON WASTE.

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TO CUT A KEY WAY, USE A CAPE CHISEL; CUT BOTH WAYS TOWARD THE CENTRE, TO AVOID BREAKING OUT ONE END OF THE KEY WAY.

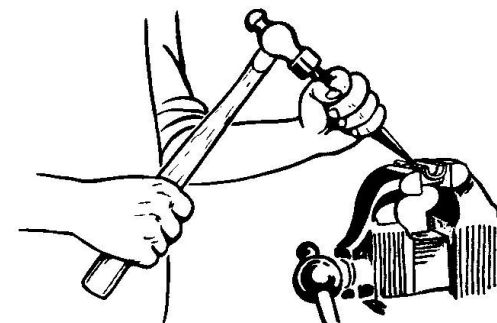


TO CUT OFF LARGE RIVET HEADS OR OTHER PROJECTIONS, USE A CAPE CHISEL. (a) CUT A GROOVE THROUGH THE CENTRE. (b) CHIP OFF THE REMAINING PARTS.

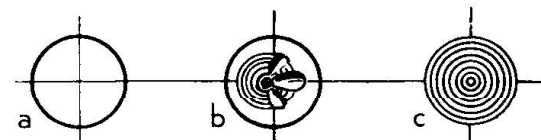
TO AVOID ACCIDENTS

KEEP THE HEAD OF THE CHISEL AND THE FACE OF THE HAMMER CLEAN AND FREE FROM OIL. LET THE GRIP OF THE THUMB AND FOREFINGER BE LOOSE ENOUGH TO GIVE, IF THE HAMMER SHOULD SLIP AND HIT THEM. IN USE, THE HEAD OF THE CHISEL BECOMES TURNED OVER OR BURRED. KEEP THE BURR GROUND AWAY TO PREVENT INJURY TO THE HANDS AND TO PREVENT PARTICLES OF THE BURR FROM FLYING OFF INTO YOUR EYES. WHEN CHIPPING, USE GOGGLES TO PROTECT YOUR EYES.

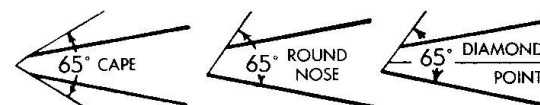
STANLEY



TO CUT AN OIL GROOVE IN A BEARING, USE A ROUND NOSE OR A DIAMOND POINT CHISEL.



TO DRAW A HOLE: IF A DRILL IN STARTING HAS RUN OFF THE CENTRE OF THE LAYOUT a THE ERROR CAN BE CORRECTED IF THE SPOT IS NOT TOO DEEP. CHIP THE HEAVY SIDE OF THE SPOT WITH A ROUND NOSE, OR A DIAMOND POINT CHISEL, AS SHOWN AT b. THE DRILL WILL BITE DEEPER ON THIS SIDE, THUS DRAWING THE SPOT TO THE CENTRE AS SHOWN AT c.



COLD CHISELS ARE GROUND TO A CUTTING ANGLE OF ABOUT 65° FOR AVERAGE WORK. COLD CHISELS ARE USUALLY MADE OF CARBON TOOL STEEL. NO. 2B, NO. 3B AND NO. 4B, ARE MADE OF SILICON MANGANESE ALLOY STEEL, TOUGH ENOUGH TO GIVE HARD LASTING USE, BUT SOFT ENOUGH TO FILE SHARP, THUS AVOIDING THE DANGER OF BURNING THE EDGE WHEN GRINDING.

STANLEY TOOLS
EDUCATIONAL DEPARTMENT
WALL CHART NO. S36